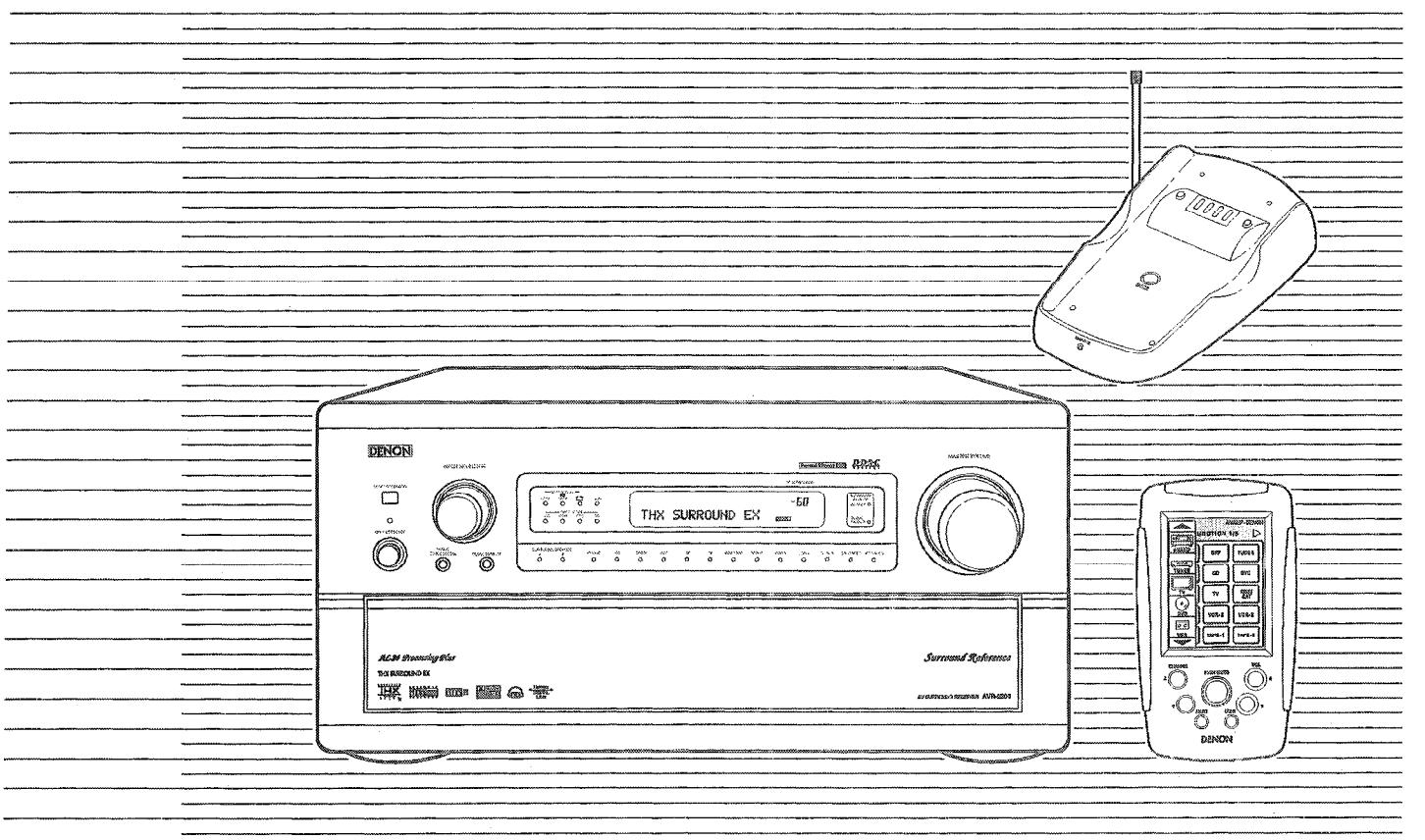
DENON

AV SURROUND RECEIVER

AVR-5803

OPERATING INSTRUCTIONS



- We greatly appreciate your purchase of the AVR-5803.
- To be sure you take maximum advantage of all the features the AVR-5803 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

"SERIAL NO. _____

PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

■ SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION

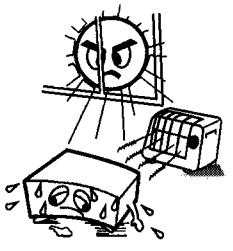
POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTERODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

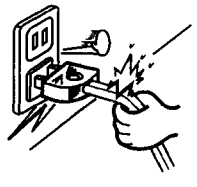
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

■ NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION

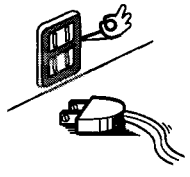


- Avoid high temperatures.
  Allow for sufficient heat dispersion when installed on a rack.
- Eviter des températures élevées.
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.

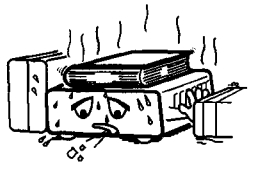


- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.

- Keep the set free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.

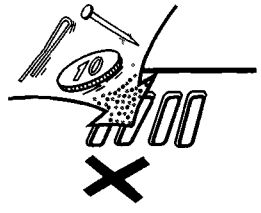


- Unplug the power cord when not using the set for long periods of time.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.

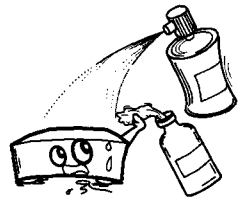


* (For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Ne pas obstruer les trous d'aération.



- Do not let foreign objects in the set.
- Ne pas laisser des objets étrangers dans l'appareil.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.

- Never disassemble or modify the set in any way
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

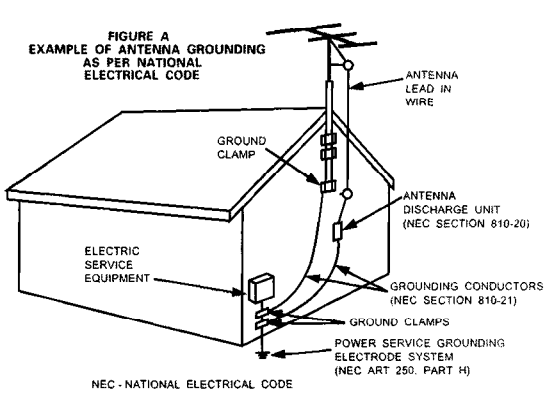

ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC - NATIONAL ELECTRICAL CODE

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

13. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
15. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
16. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
17. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
18. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
19. Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
20. Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
21. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power-supply cord or plug is damaged,
    b) If liquid has been spilled, or objects have fallen into the product,
    c) If the product has been exposed to rain or water,
    d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
    e) If the product has been dropped or damaged in any way, and
    f) When the product exhibits a distinct change in performance – this indicates a need for service.
22. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
23. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
24. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
25. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

■ INTRODUCTION

Thank you for choosing the DENON AVR-5803 Digital Surround A / V receiver. This remarkable component has been engineered to provide superb surround sound listening with home theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources.
As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

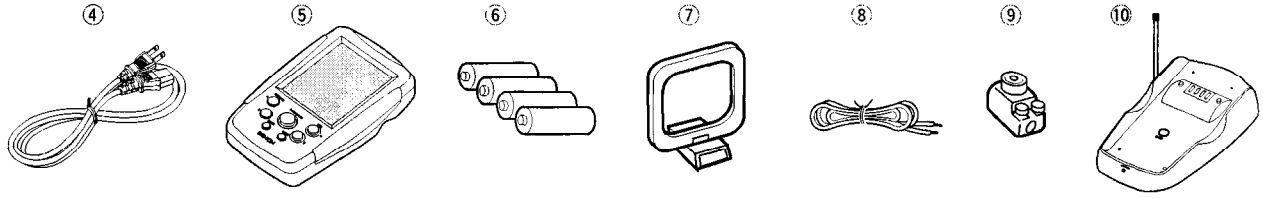
TABLE OF CONTENTS

1 Before Using 4
2 Cautions on Installation 4
3 Cautions on Handling 5
4 Features 5, 6
5 Connections ..... 6~14
6 Part Names and Functions 15, 16
7 Setting up the system ..... 16~37
8 Remote Control Unit 37
9 Operation ..... 38~47
10 Surround ..... 48~60
11 DENON Original Surround Modes ..... 61~65
12 Listening to the Radio ..... 66~68
13 Last Function Memory 68
14 Initialization of the Microprocessor 68
15 Troubleshooting 69
16 Additional Information ..... 70~81
17 Specifications 82, 83

■ ACCESSORIES

Check that the following parts are included in addition to the main unit:

① Operating instructions
AVR-5803.....1
RC-8000.....1
RC-8001ST.....1
② Warranty (for North America model only).....1
③ Service station list.....1
④ AC cord.....1
⑤ Remote control unit (RC-8000).....1
⑥ LR6/AA alkaline batteries...4
⑦ AM loop antenna.....1
⑧ FM indoor antenna.....1
⑨ FM antenna adaptor.....1
⑩ RC-8001ST.....1set



1 BEFORE USING

Pay attention to the following before using this unit:

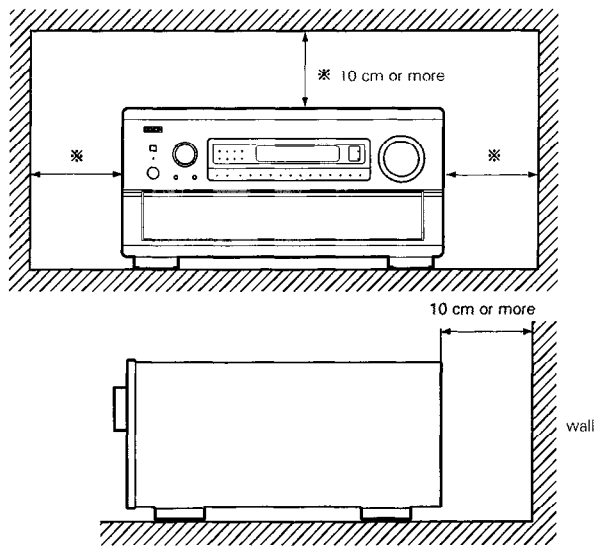
- **Moving the set**
  To prevent short circuits or damaged wires in the connection cords, always unplug the power cord and disconnect the connection cords between all other audio components when moving the set.
- **Before turning the power switch on**
  Check once again that all connections are proper and that there are not problems with the connection cords. Always set the power switch to the standby position before connecting and disconnecting connection cords.
- **Store this instructions in a safe place.**
  After reading, store this instructions along with the warranty in a safe place.
- **Note that the illustrations in this instructions may differ from the actual set for explanation purposes.**

2 CAUTIONS ON INSTALLATION

Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV.
If this happens, take the following steps:

- Install this unit as far as possible from the tuner or TV.
- Set the antenna wires from the tuner or TV away from this unit's power cord and input/output connection cords.
- Noise or disturbance tends to occur particularly when using indoor antennas or 300 Ω/ohms feeder wires. **We recommend using outdoor antennas and 75 Ω/ohms coaxial cables.**

For heat dispersal, leave at least 10 cm of space between the top, back and sides of this unit and the wall or other components.



3 CAUTIONS ON HANDLING

- **Switching the input function when input jacks are not connected**
  A clicking noise may be produced if the input function is switched when nothing is connected to the input jacks. If this happens, either turn down the MASTER VOLUME control or connect components to the input jacks.

- **Muting of PRE OUT jacks and SPEAKER terminals**
  The PRE OUT jacks and SPEAKER terminals include a muting circuit. Because of this, the output signals are greatly reduced for several seconds after the power switch is turned on or input function, surround mode or any other-set-up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume.

- **Whenever the power switch is in the STANDBY state, the apparatus is still connected on AC line voltage.**
  Please be sure to unplug the cord when you leave home for, say, a vacation.

4 FEATURES

1. **Digital Surround Sound Decoding**
   Featuring dual 32 bit high speed DSP processors, operating entirely in digital domain, surround sound from digital sources such as DVD, DTV and satellite are faithfully re-created.
2. **Dolby Digital**
   Using advanced digital processing algorithms, Dolby Digital provides up to 5.1 channels of wide-range, high fidelity surround sound. Dolby Digital is the default digital audio delivery system for North American DVD and DTV, and is available on laser discs as well as some digital satellite direct-to-home services.
3. **DTS (Digital Theater Systems)**
   DTS provides up to 5.1 channels of wide-range, high fidelity surround sound, from sources such as laser disc, DVD and specially-encoded music discs.
4. **Lucasfilm Home THX Ultra2 Certified**
   Home THX is the unique collaboration between Lucasfilm Ltd. and audio equipment manufacturers. THX Ultra2 certification is the highest performance level, and provides a rigorous set of performance standards, along with proprietary surround sound post-processing technologies, designed to enhance the surround soundtrack playback experience in the home theater.
   In addition to improvements to the power amplifier with respect to previous THX Ultra standards, two surround modes have been added: the THX Ultra2 Cinema mode and the THX Music mode.
5. **THX Surround EX**
   The AVR-5803 is fully compatible with THX Surround EX, the latest surround format.
6. **DTS-ES Extended Surround and DTS Neo:6**
   The AVR-5803 is compatible with DTS-ES Extended Surround, a new multi-channel format developed by Digital Theater Systems Inc.
   The AVR-5803 is also compatible with DTS Neo:6, a surround mode allowing 6.1-channel playback of regular stereo sources.
7. **DTS 96/24 compatibility**
   The AVR-5803 is compatible with sources recorded in DTS 96/24, a new multi-channel digital signal format developed by Digital Theater Systems Inc.
   DTS 96/24 sources can be played in the multi-channel mode on the AVR-5803 with high sound quality of 96 kHz/24 bits or 88.2 kHz/24 bits.
8. **Dolby Pro Logic II decoder**
   Dolby Pro Logic II is a new format for playing multichannel audio signals that offers improvements over conventional Dolby Pro Logic. It can be used to decode not only sources recorded in Dolby Surround but also regular stereo sources into five channels (front left/right, center and surround left/right). In addition, various parameters can be set according to the type of source and the contents, so you can adjust the sound field with greater precision.
9. **Wide screen mode for a 7.1-channel sound even with 5.1-channel sources**
   DENON has developed a wide screen mode with a new design which recreates the effects of the multi surround speakers in movie theaters. The result is 7.1-channel sound taking full advantage of surround back speakers, even with Dolby Pro Logic or Dolby Digital/DTS 5.1-channel signals.
10. **Dual Surround Speaker Mode**
    Provides for the first time the ability to optimize surround sound reproduction using two different types of surround sound speakers as well as two different surround speaker positions:
    (1) Movie Surround
    Motion picture soundtracks use the surround channel(s) to provide the ambient elements of the acoustic environment they want the audience to realize. This is best accomplished by the use of specially-designed surround speakers that offer a wide diffusion pattern (bipolar dispersion) or by using surround speakers that provide broad dispersion with a minimum of on-axis localization (dipolar dispersion). Side wall mounting (closer to the ceiling) of the surround speakers provides the greatest envelopment, minimizing localization of direct sound from the speakers.
    (2) Music Surround
    With full range discrete surround channels, as well as three discrete full range front channels, digital formats such as Dolby and DTS offer thrilling surround sound music listening. Producers of multi-channel discrete digital music recordings almost always favor the use of direct radiating (monopolar) surround speakers, placed in the rear corners of the room, since that is how they configure their studios during the mixing/creation process.
    The DENON AVR-5803 provides the ability to connect two different sets of surround speakers, and place them in the appropriate locations in your home theater room, so that you can enjoy both movie soundtracks and music listening, with optimum results and no compromise.
11. **Multi-zone control**
    The AVR-5803 is equipped with two sets of multi-zone outputs allowing a source other than the one currently being played to be selected.
    (1) Multi-zone 1
    These are level adjustable pre-outputs. (A fixed output level can also be selected.)
    The video signals of the input source selected with the multi-zone 1 selector are output.
    (2) Multi-zone 2
    When set at the System Setup Menu, the power amplifier for the surround back channel can be used as the multi-zone 2 power amplifier and speakers can be connected to the multi-zone 2 speaker terminals for playback.
12. **Component Video Switching**
    The AVR-5803 provides 3 sets of component video (Y, R-Y, B-Y) inputs for the DVD, TV and DBS/SAT inputs, and one set of component video outputs to the television, for superior picture quality.
    The AVR-5803 is also equipped with a function for up-converting composite video or S-Video signals to component video signals.
13. **Video Select Function**
    Allow you to watch one source (visual) while listening to another source (audio).

14.Seven Identical Power Amplifiers
Featuring discrete high current power transistors, the power amp section is THX Ultra certified for top performance with the widest range of speaker systems. Rated at 170 watts into 8 Ω/ohms, the amp channels feature additional low impedance drive capability.

15.Future Sound Format Upgrade Capability via Eight Channel Inputs & Outputs
For future multi-channel audio format(s), the AVR-5803 is provided with 7.1 channel (seven main channels, plus one low frequency effects channel) inputs, along with a full set of 7.1 channel pre-amp outputs, controlled by the 8 channel master volume control. This assures future upgrade possibilities for any future multi-channel sound format.
A/D converters are provided for each channel for digital down-mixing compatibility.

16.Dolby Headphone Compatibility
This is a three-dimensional sound technology developed jointly by Dolby Laboratories and Lake Technology Ltd. of Australia for achieving surround sound using regular headphones.

17.DENON Link
This terminal can be used to connect a Denon DVD player for high quality digital multichannel playback.

18.Auto Surround Mode
This function stores the surround mode last used for an input signal in the memory and automatically sets that surround mode the next time that signal is input.

19.Audio Delay
This is a function for delaying the audio signal with respect to the video signal. (0 to 200 msec)

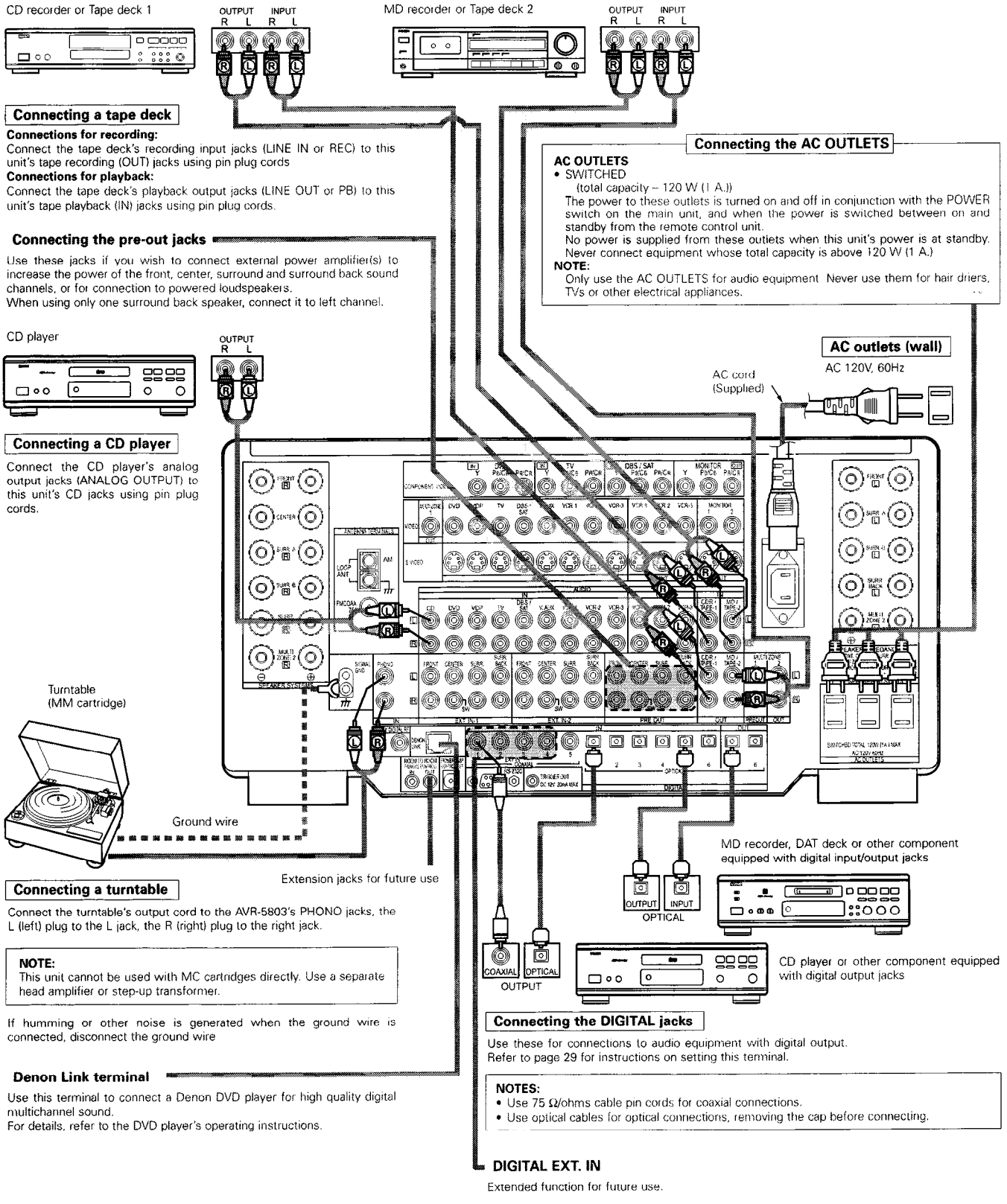
20.Setup Lock
This is a function that locks the system setup and surround parameter settings, etc., so that they cannot be changed.

5 CONNECTIONS

- Do not plug in the AC cord until all connections have been completed.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Insert the plugs securely. Incomplete connections will result in the generation of noise.
- **Use the AC OUTLETS for audio equipment only. Do not use them for hair driers, etc.**
- Note that binding pin plug cords together with AC cords or placing them near a power transformer will result in generating hum or other noise.
- Noise or humming may be generated if a connected audio equipment is used independently without turning the power of this unit on. If this happens, turn on the power of the this unit.

Connecting the audio components

- When making connections, also refer to the operating instructions of the other components.



Connecting a tape deck

Connections for recording:
Connect the tape deck's recording input jacks (LINE IN or REC) to this unit's tape recording (OUT) jacks using pin plug cords
Connections for playback:
Connect the tape deck's playback output jacks (LINE OUT or PB) to this unit's tape playback (IN) jacks using pin plug cords.

Connecting the pre-out jacks

Use these jacks if you wish to connect external power amplifier(s) to increase the power of the front, center, surround and surround back sound channels, or for connection to powered loudspeakers.
When using only one surround back speaker, connect it to left channel.

Connecting a CD player

Connect the CD player's analog output jacks (ANALOG OUTPUT) to this unit's CD jacks using pin plug cords.

Connecting a turntable

Connect the turntable's output cord to the AVR-5803's PHONO jacks, the L (left) plug to the L jack, the R (right) plug to the right jack.

NOTE:
This unit cannot be used with MC cartridges directly. Use a separate head amplifier or step-up transformer.

If humming or other noise is generated when the ground wire is connected, disconnect the ground wire

Denon Link terminal

Use this terminal to connect a Denon DVD player for high quality digital multichannel sound.
For details, refer to the DVD player's operating instructions.

Connecting the AC OUTLETS

AC OUTLETS
- SWITCHED
  (total capacity – 120 W (1 A.))
  The power to these outlets is turned on and off in conjunction with the POWER switch on the main unit, and when the power is switched between on and standby from the remote control unit.
  No power is supplied from these outlets when this unit's power is at standby.
  Never connect equipment whose total capacity is above 120 W (1 A.)

NOTE:
Only use the AC OUTLETS for audio equipment. Never use them for hair driers, TVs or other electrical appliances.

Connecting the DIGITAL jacks

Use these for connections to audio equipment with digital output.
Refer to page 29 for instructions on setting this terminal.

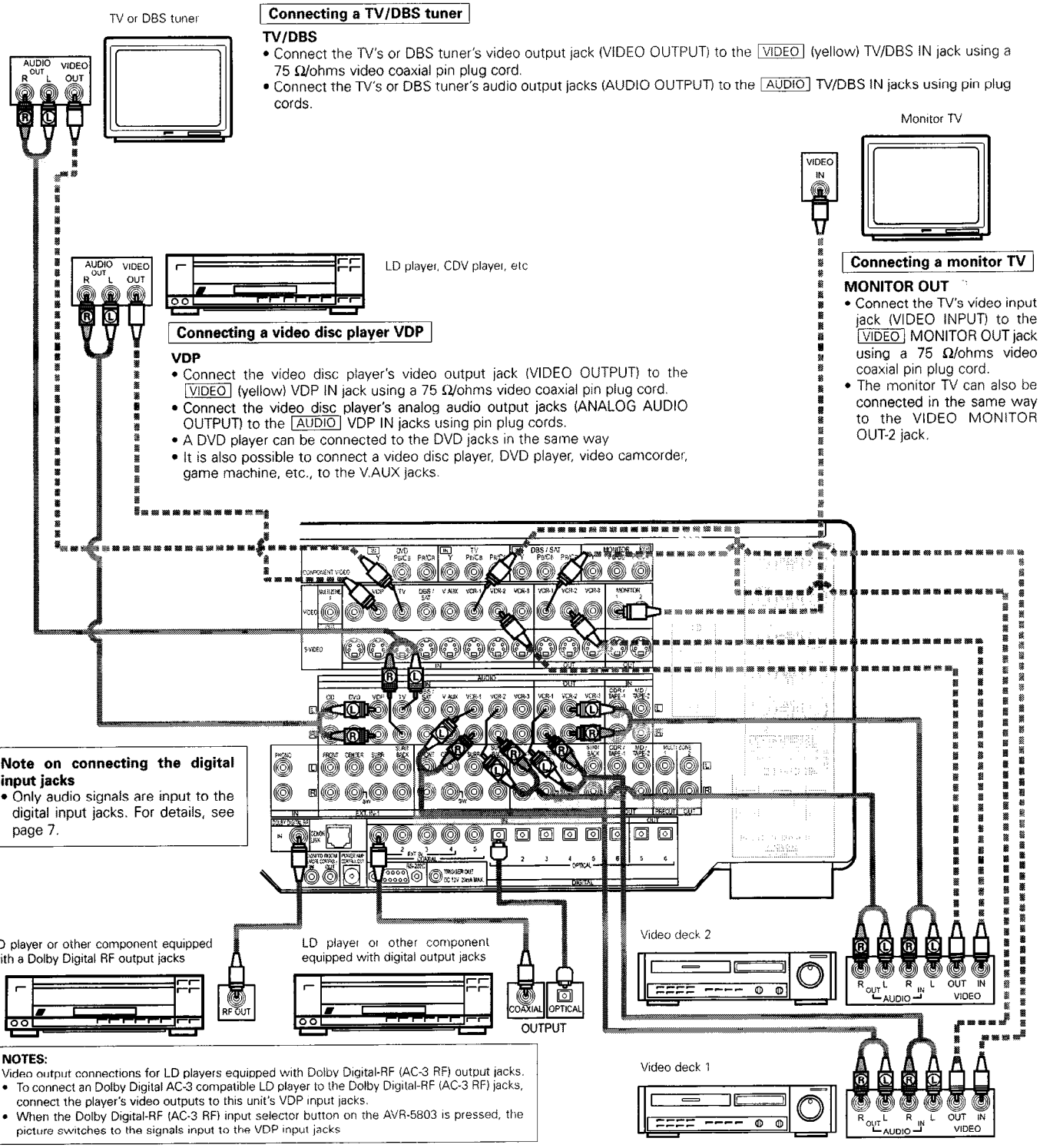
NOTES:
- Use 75 Ω/ohms cable pin cords for coaxial connections.
- Use optical cables for optical connections, removing the cap before connecting.

DIGITAL EXT. IN

Extended function for future use.

Connecting video components

- To connect the video signal, connect using a 75 Ω/ohms video signal cable cord. Using an improper cable can result in a drop in picture quality.
- When making connections, also refer to the operating instructions of the other components.



Connecting a TV/DBS tuner

TV/DBS

- Connect the TV's or DBS tuner's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) TV/DBS IN jack using a 75 Ω/ohms video coaxial pin plug cord.
- Connect the TV's or DBS tuner's audio output jacks (AUDIO OUTPUT) to the AUDIO TV/DBS IN jacks using pin plug cords.

Connecting a video disc player VDP

VDP

- Connect the video disc player's video output jack (VIDEO OUTPUT) to the VIDEO (yellow) VDP IN jack using a 75 Ω/ohms video coaxial pin plug cord.
- Connect the video disc player's analog audio output jacks (ANALOG AUDIO OUTPUT) to the AUDIO VDP IN jacks using pin plug cords.
- A DVD player can be connected to the DVD jacks in the same way
- It is also possible to connect a video disc player, DVD player, video camcorder, game machine, etc., to the V.AUX jacks.

Connecting a monitor TV

MONITOR OUT

- Connect the TV's video input jack (VIDEO INPUT) to the VIDEO MONITOR OUT jack using a 75 Ω/ohms video coaxial pin plug cord.
- The monitor TV can also be connected in the same way to the VIDEO MONITOR OUT-2 jack.

Note on connecting the digital input jacks

- Only audio signals are input to the digital input jacks. For details, see page 7.

NOTES:

Video output connections for LD players equipped with Dolby Digital-RF (AC-3 RF) output jacks.

- To connect an Dolby Digital AC-3 compatible LD player to the Dolby Digital-RF (AC-3 RF) jacks, connect the player's video outputs to this unit's VDP input jacks.
- When the Dolby Digital-RF (AC-3 RF) input selector button on the AVR-5803 is pressed, the picture switches to the signals input to the VDP input jacks

Connecting a video decks

- There are three sets of video deck (VCR) jacks, so three video decks can be connected for simultaneous recording or video copying.

Video input/output connections:

- Connect the video deck's video output jack (VIDEO OUT) to the VIDEO (yellow) VCR-1 IN jack, and the video deck's video input jack (VIDEO IN) to the VIDEO (yellow) VCR-1 OUT jack using 75 Ω/ohms video coaxial pin plug cords.

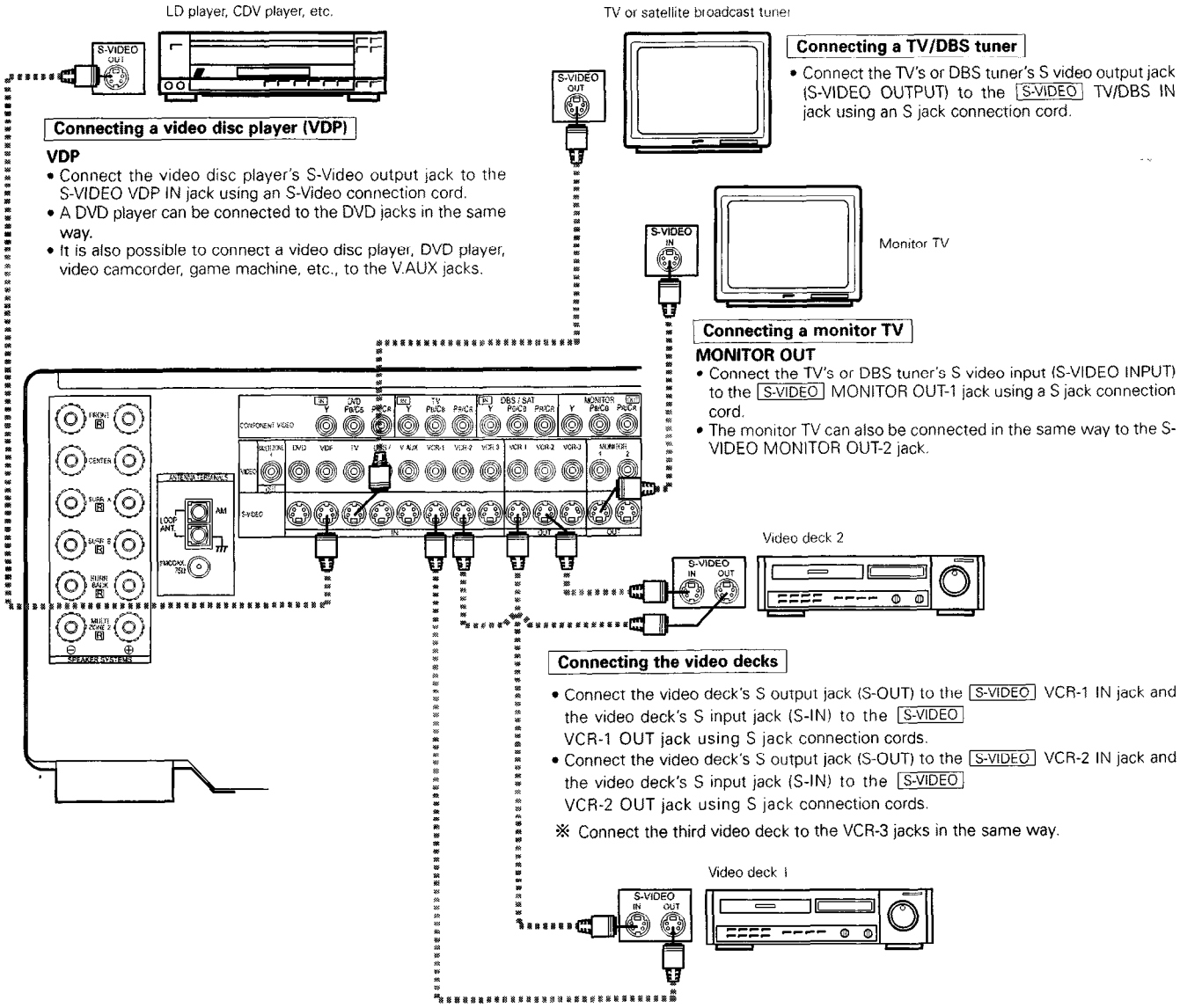
Connecting the audio output jacks

- Connect the video deck's audio output jacks (AUDIO OUT) to the AUDIO VCR-1 IN jacks, and the video deck's audio input jacks (AUDIO IN) to the AUDIO VCR-1 OUT jacks using pin plug cords.

※ Connect the another video deck to the VCR-2 or VCR-3 jacks in the same way.

Connecting a video component equipped with S-Video jacks

- When making connections, also refer to the operating instructions of the other components.
- **A note on the S input jacks**
  The input selectors for the S inputs and pin jack inputs work in conjunction with each other.
- **Precaution when using S-jacks**
  This unit's S-jacks (input and output) and video pin jacks (input and output) have independent circuit structures, so that video signals input from the S-jacks are only output from the pin jack outputs.
  When connecting this unit with equipment that is equipped with S-jacks, keep the above point in mind and make connections according to the equipment's instruction manuals.
  For a description of the MONITOR OUT terminals, see page 10.

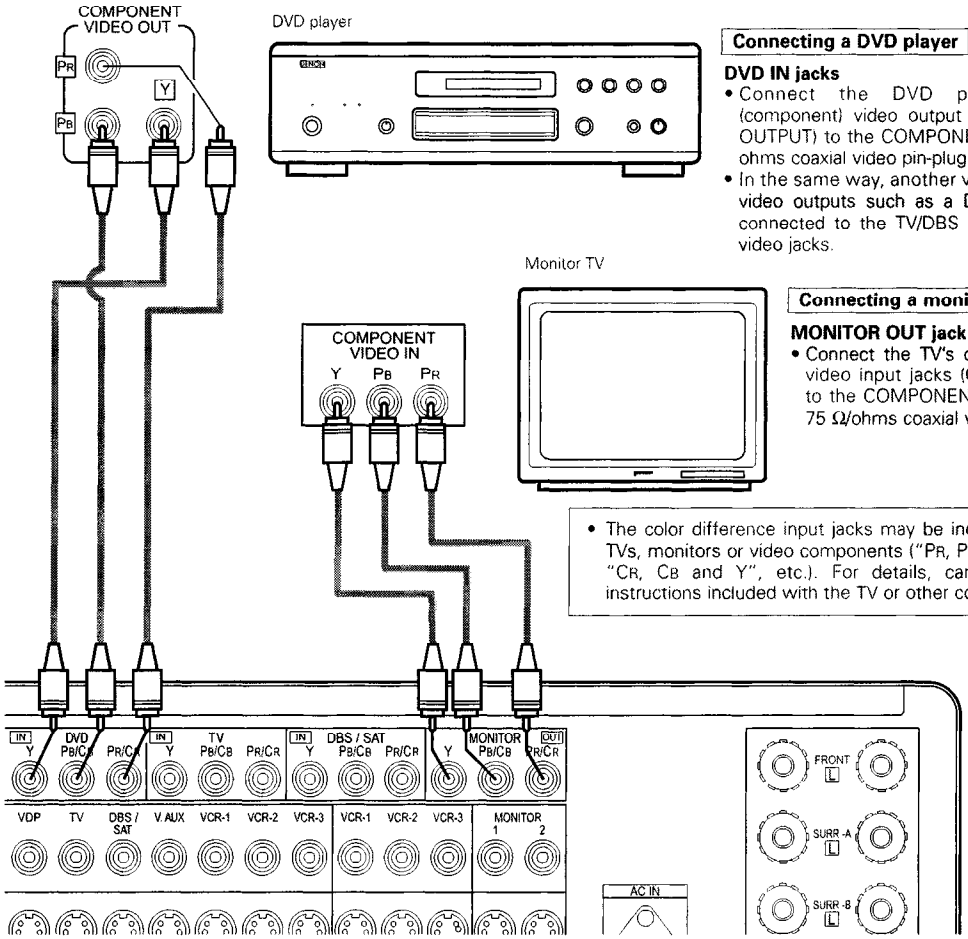

LD player, CDV player, etc.
S-VIDEO OUT
TV or satellite broadcast tuner
S-VIDEO OUT
Connecting a TV/DBS tuner
• Connect the TV's or DBS tuner's S video output jack (S-VIDEO OUTPUT) to the S-VIDEO TV/DBS IN jack using an S jack connection cord.
Connecting a video disc player (VDP)
VDP
• Connect the video disc player's S-Video output jack to the S-VIDEO VDP IN jack using an S-Video connection cord.
• A DVD player can be connected to the DVD jacks in the same way.
• It is also possible to connect a video disc player, DVD player, video camcorder, game machine, etc., to the V.AUX jacks.
S-VIDEO IN
Monitor TV
Connecting a monitor TV
MONITOR OUT
• Connect the TV's or DBS tuner's S video input (S-VIDEO INPUT) to the S-VIDEO MONITOR OUT-1 jack using a S jack connection cord.
• The monitor TV can also be connected in the same way to the S-VIDEO MONITOR OUT-2 jack.
Video deck 2
S-VIDEO IN OUT
Connecting the video decks
• Connect the video deck's S output jack (S-OUT) to the S-VIDEO VCR-1 IN jack and the video deck's S input jack (S-IN) to the S-VIDEO VCR-1 OUT jack using S jack connection cords.
• Connect the video deck's S output jack (S-OUT) to the S-VIDEO VCR-2 IN jack and the video deck's S input jack (S-IN) to the S-VIDEO VCR-2 OUT jack using S jack connection cords.
※ Connect the third video deck to the VCR-3 jacks in the same way.
Video deck 1
S-VIDEO IN OUT

Connect the components' audio inputs and outputs as described on page 7.

NOTE:
- The MONITOR OUT-2 output switches together with the input function selected with the REC/M-ZONE 2 button. To use as the monitor output, set "SOURCE" as the REC/M-ZONE 2 input function. At this time, the on-screen display signals are output from the video signal MONITOR OUT-2 (yellow) or S-Video signal MONITOR OUT-2 jack.

Connecting a Video Component Equipped with Color Difference (Component - Y, PR/CR, PB/CB) Video Jacks (DVD Player)

- When making connections, also refer to the operating instructions of the other components.
- The signals input to the color difference (component) video jacks are not output from the VIDEO output jack (yellow) or the S-Video output jack.
- Some video sources with component video outputs are labeled Y, PB, PR, or Y, CB, CR, or Y, R-Y, B-Y. These terms all refer to component video color difference output.



Connecting a DVD player

DVD IN jacks

- Connect the DVD player's color difference (component) video output jacks (COMPONENT VIDEO OUTPUT) to the COMPONENT DVD IN jack using 75 Ω/ohms coaxial video pin-plug cords.
- In the same way, another video source with component video outputs such as a DTV/DBS tuner, etc., can be connected to the TV/DBS color difference (component) video jacks.

Connecting a monitor TV

MONITOR OUT jack

- Connect the TV's color difference (component) video input jacks (COMPONENT VIDEO INPUT) to the COMPONENT MONITOR OUT jack using 75 Ω/ohms coaxial video pin-plug cords.

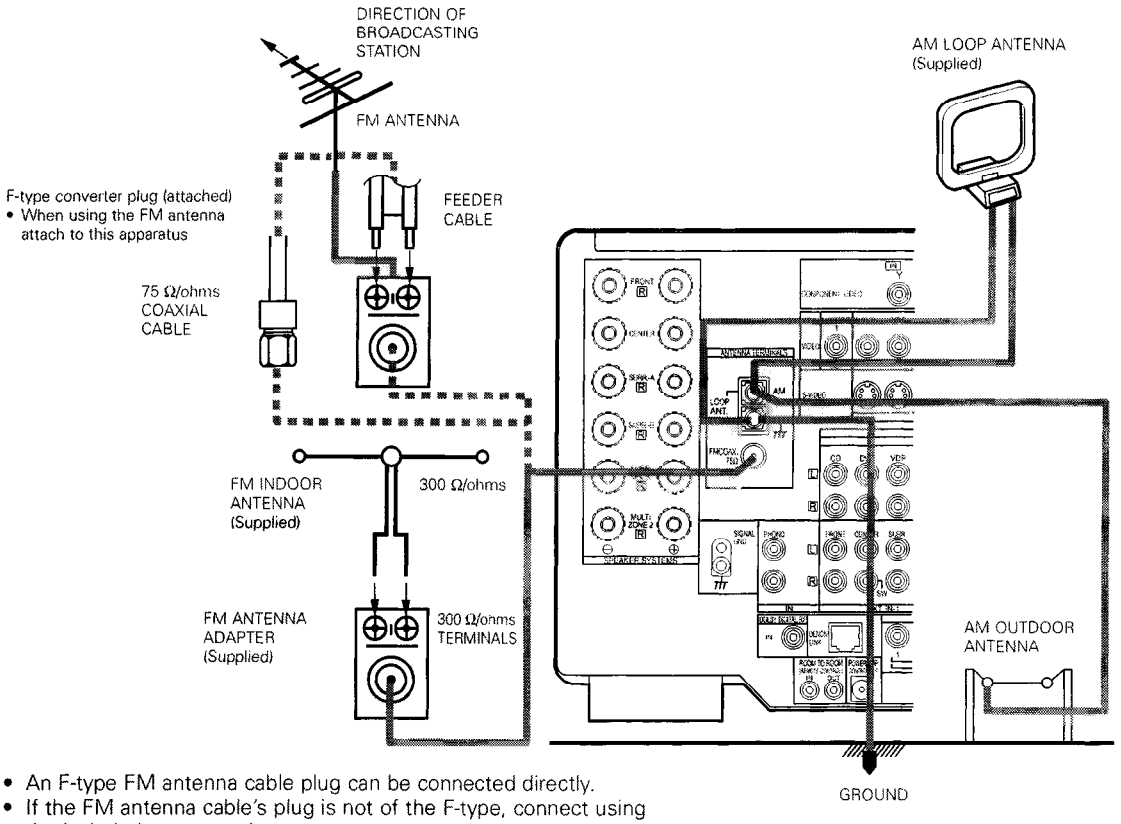
- The color difference input jacks may be indicated differently on some TVs, monitors or video components ("PR, PB and Y", "R-Y, B-Y and Y", "CR, CB and Y", etc.). For details, carefully read the operating instructions included with the TV or other component.

MONITOR OUT jacks

The AVR-5803 is equipped with a function for up-converting video signals.
Because of this, the AVR-5803's MONITOR OUT jack can be connected to the monitor (TV) with a single cable offering a higher quality connection, regardless of how the player and the AVR-5803's video input jacks are connected.
Generally speaking, connections using the component video jacks offer the highest quality playback, followed by connections using the S-Video jacks, then connections using the regular video jacks (yellow).

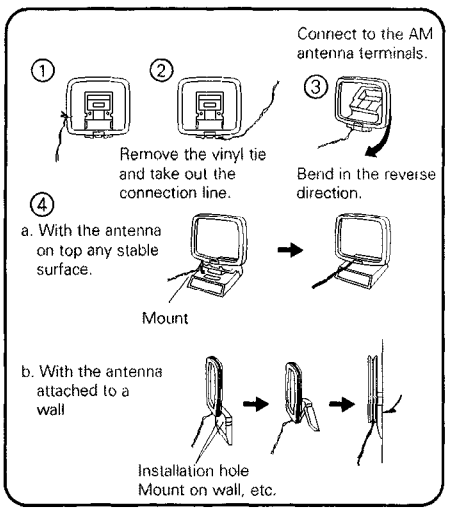
※ If the AVR-5803's MONITOR OUT jack is not connected to the monitor (TV) using the component video jacks, connect the player to the AVR-5803's video input jacks using either the video jacks (yellow) or the S-Video jacks. The video signals will not be output if the player and the AVR-5803 are only connected with the component video jacks.

Connecting the antenna terminals

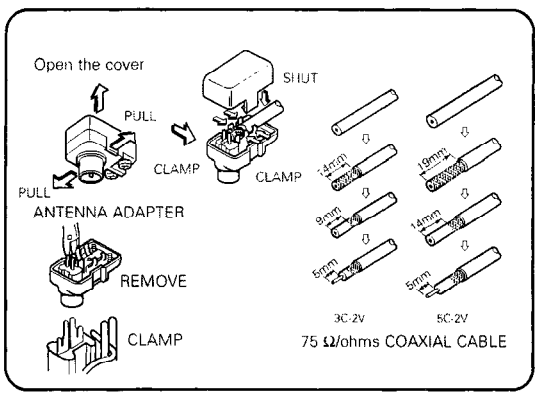


- An F-type FM antenna cable plug can be connected directly.
- If the FM antenna cable's plug is not of the F-type, connect using the included antenna adapter.

AM loop antenna assembly

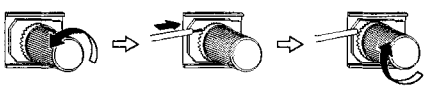

Connect to the AM antenna terminals.
①
②
③
Remove the vinyl tie and take out the connection line.
Bend in the reverse direction.
④
a. With the antenna on top any stable surface.
Mount
b. With the antenna attached to a wall
Installation hole
Mount on wall, etc.

FM antenna adapter assembly



Connection of AM antennas

1. Loosen by turning counterclockwise.
2. Insert the cord
3. Tighten by turning clockwise.

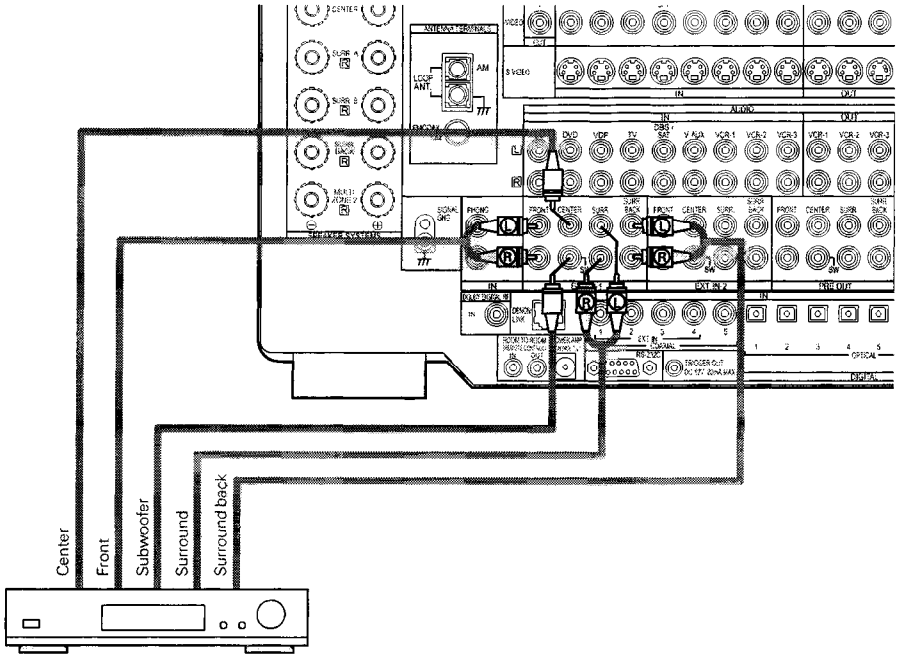


Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Notes:
- Do not connect two FM antennas simultaneously
- Even if an external AM antenna is used, do not disconnect the AM loop antenna
- Make sure AM loop antenna lead terminals do not touch metal parts of the panel.

Connecting the external input (EXT. IN) jacks

- These jacks are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD Audio player, or a multi-channel SACD player, or other future multi-channel sound format decoder.
- When making connections, also refer to the operating instructions of the other components.

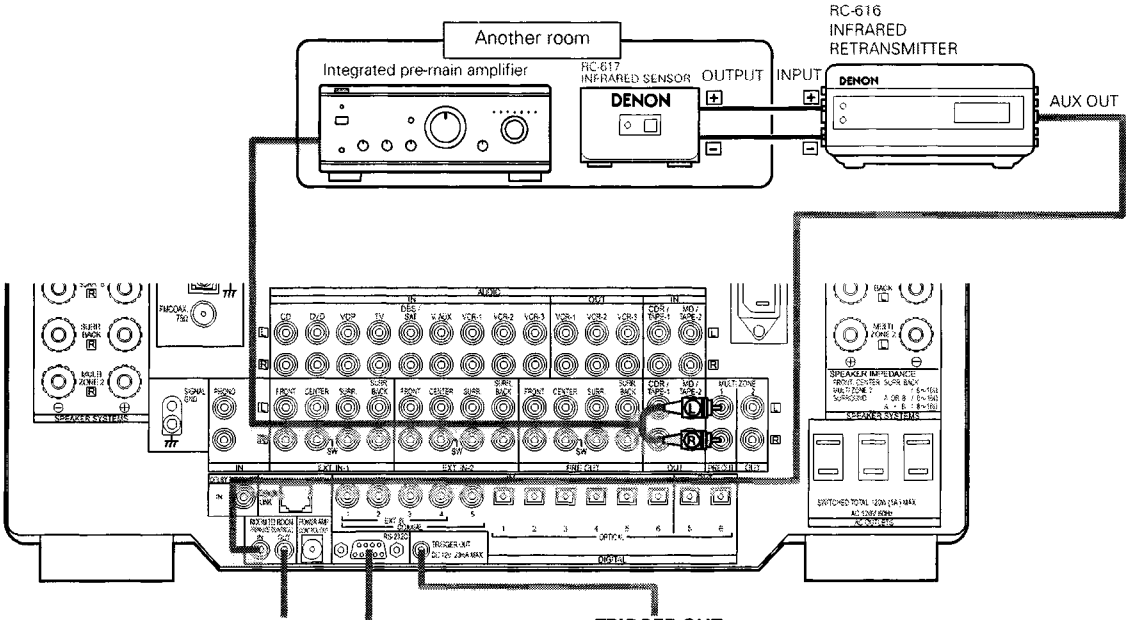


Decoder with 8- or 6-channel analog output

※ For instructions on playback using the external input (EXT. IN) jacks, see page 44.

Connecting the MULTI ZONE jacks

- If another pre-main (integrated) amplifier is connected, the multi-zone jacks can be used to play a different program source in another room at the same time. (See pages 46, 47.)



Extension jacks for future use.

TRIGGER OUT
DC 12V turns on and off when the product's power is turned on and off.

CONTROL terminal
Perform the following operation before using an external controller connected to the RS-232C terminal:
1. Press the ON/STANDBY button on the main unit and set the unit to the operating mode.
2. Perform the operation to turn off the power from the external control.
3. Check that the product has been set to the standby mode.

After checking the above, check the connections of the external controller. Operation is possible.

※ For instructions on operations using the MULTI ZONE jacks, see page 43.

Speaker system connections

- Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕ , ⊖ with ⊖). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.
- When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel.

NOTE:
NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

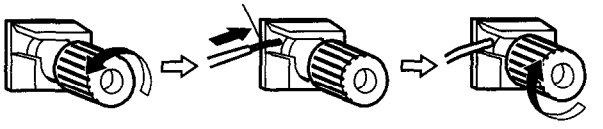
Speaker Impedance

- Speakers with an impedance of from 6 to 16 Ω/ohms can be connected for use as front and center speakers.
- Speakers with an impedance of 6 to 16 Ω/ohms can be connected for use as surround speakers.
- The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance are connected.

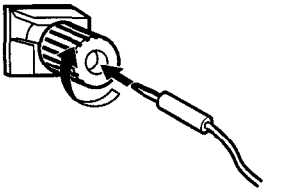
Connecting the speaker cords

1. Loosen by turning counterclockwise.
2. Insert the cord.
3. Tighten by turning clockwise.

Either tightly twist or terminate the core wires.



Connecting banana plugs



Turn clockwise to tighten, then insert the banana plug.

Protector circuit

- This unit is equipped with a high-speed protection circuit. The purpose of this circuit is to protect the speakers under circumstances such as when the output of the power amplifier is inadvertently short-circuited and a large current flows, when the temperature surrounding the unit becomes unusually high, or when the unit is used at high output over a long period which results in an extreme temperature rise.
  When the protection circuit is activated, the speaker output is cut off and the power supply indicator LED flashes. Should this occur, please follow these steps: be sure to switch off the power of this unit, check whether there are any faults with the wiring of the speaker cables or input cables, and wait for the unit to cool down if it is very hot. Improve the ventilation condition around the unit and switch the power back on.
  If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

Note on speaker impedance

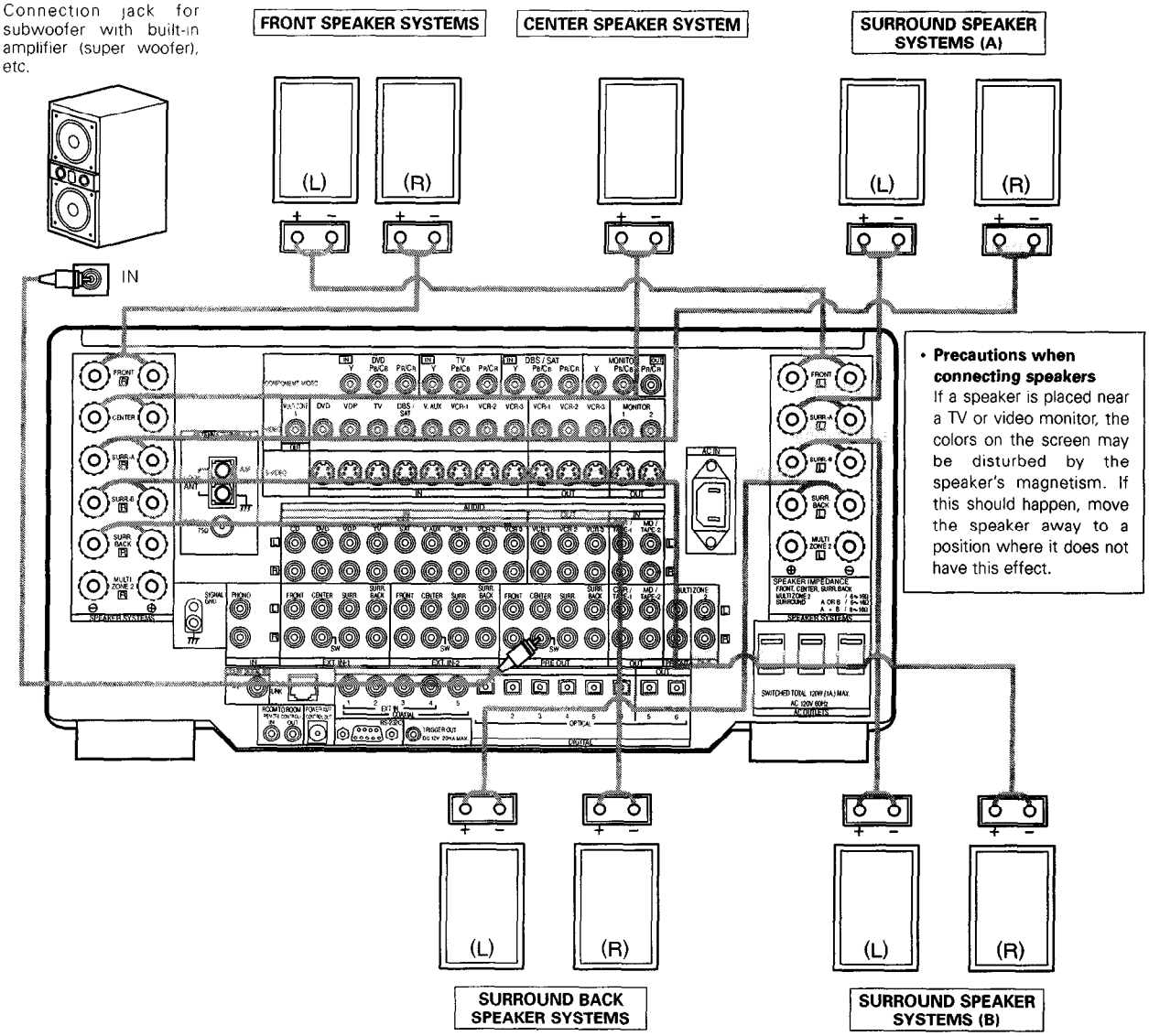
- The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance (for example speakers with an impedance of lower than 4 Ω/ohms) are connected. If the protector circuit is activated, the speaker output is cut off. Turn off the set's power, wait for the set to cool down, improve the ventilation around the set, then turn the power back on.

Cooling fan

- The AVR-5803 is equipped with a cooling fan to prevent the temperature inside the set from rising. The fan is activated under certain usage conditions. It is temperature and volume level sensitive, to minimize or prevent audible fan noise.

Connections

- When making connections, also refer to the operating instructions of the other components.



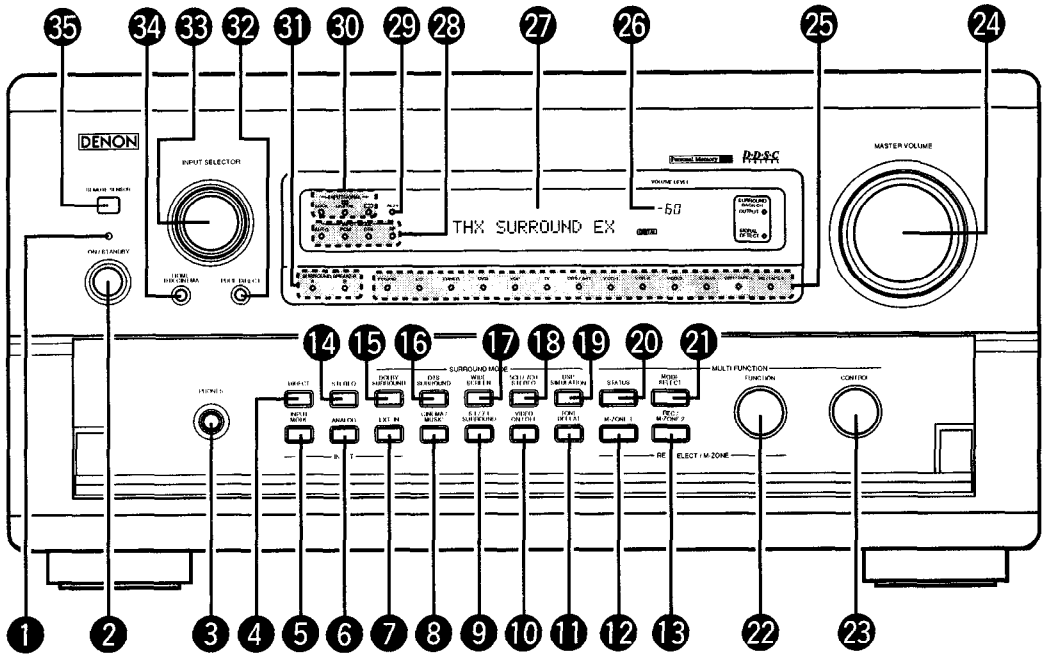
- **Precautions when connecting speakers**
  If a speaker is placed near a TV or video monitor, the colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not have this effect.

NOTE:
When using only one surround back speaker, connect it to left channel.

6 PART NAMES AND FUNCTIONS

Front Panel

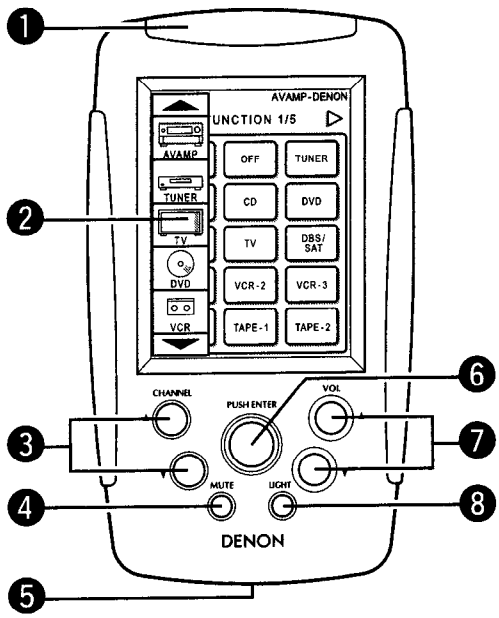
- For details on the functions of these parts, refer to the pages given in parentheses ( ).

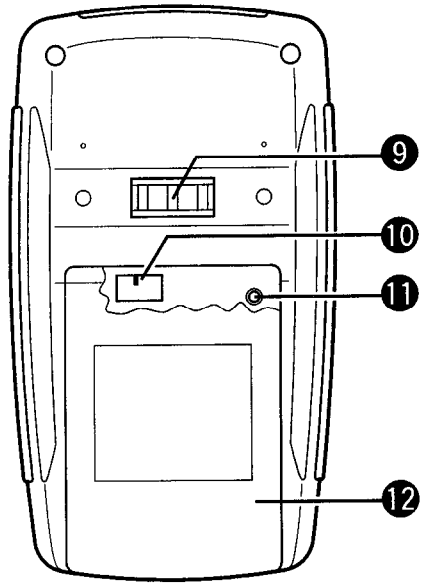


1. Power indicator ..... (38)
2. Power switch ..... (38)
3. Headphones jack (PHONES) ..... (41)
4. DIRECT button ..... (45)
5. INPUT MODE selector button ..... (39)
6. ANALOG button ..... (39)
7. EXT. IN button ..... (39)
8. CINEMA/MUSIC button ..... (59)
9. 6.1/7.1 SURROUND button ..... (64)
10. VIDEO ON/OFF button ..... (45)
11. TONE DEFEAT button ..... (41)
12. M-ZONE 1 button ..... (43)
13. REC/M-ZONE-2 button ..... (42)
14. STEREO button ..... (45)
15. DOLBY SURROUND button ..... (54)
16. DTS SURROUND button ..... (54)
17. WIDE SCREEN button ..... (62)
18. 5CH/7CH STEREO button ..... (62)
19. DSP SIMULATION button ..... (62)
20. MULTI FUNCTION STATUS button ..... (41)
21. MULTI FUNCTION MODE SELECT button ..... (48)
22. MULTI FUNCTION, REC/SELECTOR M-ZONE selector dial (FUNCTION) ..... (42)
23. MULTI FUNCTION control dial (CONTROL) ..... (49)
24. MASTER VOLUME control ..... (40)
25. Input source indicators ..... (39)
26. Master volume indicator (VOLUME LEVEL) ..... (40)
27. Display
28. Input mode indicators (INPUT MODE) ..... (40)
29. AL24 indicator ..... (40)
30. Digital signal indicators (SIGNAL) ..... (40)
31. Surround speaker system indicators (SURROUND SPEAKER A/B)) ..... (41)
32. PURE DIRECT button ..... (45)
33. Input source selector dial (INPUT SELECTOR) ..... (39)
34. HOME THX CINEMA button ..... (51)
35. Remote control sensor (REMOTE SENSOR) ..... (37)

Remote control unit

- For details, refer to the separate (supplied) RC-8000 operating instructions.

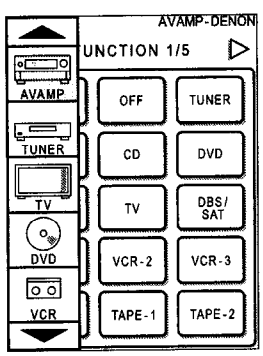




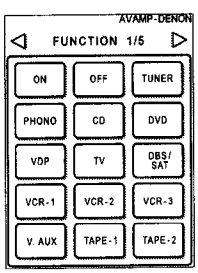
1. Transmitter
2. Touch panel
3. CHANNEL up/down buttons
4. MUTE button
5. USB terminal
6. Jog stick (PUSH ENTER)
7. VOL. (volume) up/down buttons
8. LIGHT (back light) button
9. Battery charging contacts
10. RF frequency selector switch
11. Reset button
12. Battery cover

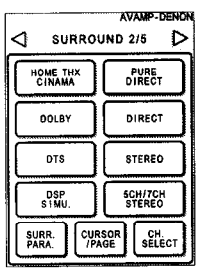
7 SETTING UP THE SYSTEM

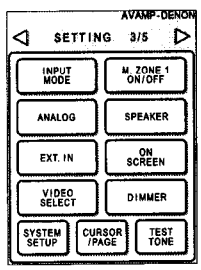
- Once all connections with other AV components have been completed as described in "CONNECTIONS" (see pages 6 to 14), make the various settings described below on the monitor screen using the AVR-5803's on-screen display function.
  These settings are required to set up the listening room's AV system centered around the AVR-5803.
- Use the following buttons to set up the system:

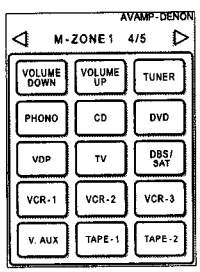


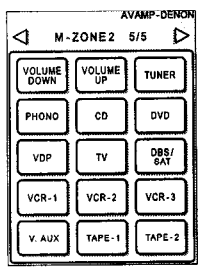
Screen while icons are displayed



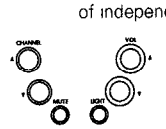








Transmission codes of independent buttons



CHANNEL▲ : Tuner preset
CHANNEL▼ : Tuner preset
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

- System setup items and default values (set upon shipment from the factory)

	System setup			Default settings							
①	Speaker Configuration	Input the combination of speakers in your system and their corresponding sizes (Small for regular speakers, Large for full-size, full-range) to automatically set the composition of the signals output from the speakers and the frequency response.		Front Sp.	Center Sp	Sub Woofer	Surround Sp.	Surround Back Sp.			
				Small	Small	Yes	Small	Small / 2spkrs			
	(Surround Speaker Setting)	Use this function when using multiple surround speaker combinations for more ideal surround sound. Once the combinations of surround speakers to be used for the different surround modes are preset, the surround speakers are selected automatically according to the surround mode.	Surround mode	DOLBY/ DTS SURROUND	THX / THX 5.1	WIDE SCREEN	5CH/7CH STEREO	DSP SIMULATION	MULTI CH DIRECT	—	—
			Surround speaker	A	A	A	A	A	A	—	—
	Crossover Frequency	Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.		FIXED —THX—							
	Subwoofer mode	This selects the subwoofer speaker for playing deep bass signals.		LFE —THX—							
②	Delay Time	This parameter is for optimizing the timing with which the audio signals are produced from the speakers and subwoofer according to the listening position.		Front L & R	Center	Sub Woofer	Surround L & R	SBL & SBR			
				12.0 ft (3.60 m)	12.0 ft (3.60 m)	12.0 ft (3.60 m)	10.0 ft (3.00 m)	10.0 ft (3.00 m)			
③	Channel Level	This adjusts the volume of the signals output from the speakers and subwoofer for the different channels in order to obtain optimum effects.		Front L	Front R	Center	Surround L	Surround R	Surround Back L	Surround Back R	Subwoofer
				0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB
④	THX Audio Setup	Boundary Gain compensation	When using a THX Ultra2 compatible subwoofer, set the subwoofer's frequency response.	THX Ultra2 Subwoofer = NO							
		Surround Back Speaker Position	When using two surround back speakers, set the distance of the two speakers	The Distance Between SBL/SBR = 0 ft to 1 ft (0 m to 0.3 m)							
⑤	Subwoofer Peak Limit Lev	This parameter is for detecting the maximum level of the low bass signals output from the subwoofer channel in order to protect the subwoofer from damage and prevent unpleasant distorted sounds from being produced.		Peak Limiter = OFF							
⑥	Digital In Assignment	This assigns the digital input jacks for the different input sources.	Input source	CD	DVD	VDP	TV	DBS/SAT	VCR-1	VCR-2	VCR-3	V. AUX	TAPE-1	TAPE-2
			Digital inputs	COAXIAL 1	COAXIAL 2	COAXIAL 3	OPTICAL 1	OPTICAL 2	OPTICAL 3	OPTICAL 4	COAXIAL 4	COAXIAL 5	OPTICAL 5	OPTICAL 6
⑦	Video Input Mode	Set the input signal to be output from the monitor output terminal.		AUTO							
⑧	Audio Delay	Adjust the time delay of the video and audio signals.		Audio Delay = 0 ms							
⑨	Multi Zone Control	Multi Zone1 vol. Level	This sets the output level for the multi-zone 1 output jacks.	Variable							
		Power AMP Assignment	Set this to switch the surround back channel's power amplifier for use for multi-zone 2.	Surround Back							
⑩	Auto Surround Mode	Auto surround mode function setting.		Auto Surround Mode = ON							
⑪	Ext. In Setup	Set the Ext.In terminal playback method		MODE = DSP, S.Back = NOT USED, SW Level = +15 dB, INPUT Vol = 0 dB							
⑫	Digital Multi Ch In	Digital multichannel input setting.		DENON Link = OFF, Digital Ext. In = OFF							
⑬	On Screen Display	This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated (from MONITOR 1 outputs only).		On Screen Display = ON							
⑭	Auto Tuner Presets	FM stations are received automatically and stored in the memory.		A1 ~ A8	87.5/89.1/98.1/107.9/90.1/90.1/90.1/90.1 MHz						
				B1 ~B8	520/600/1000/1400/1500/1710 kHz/90.1/90.1 MHz						
				C1 ~C8	90.1 MHz						
				D1 ~D8	90.1 MHz						
				E1 ~E8	90.1 MHz						
⑮	Setup Lock	Set whether or not to lock the system setup settings so that they cannot be changed.		Setup Lock = OFF							

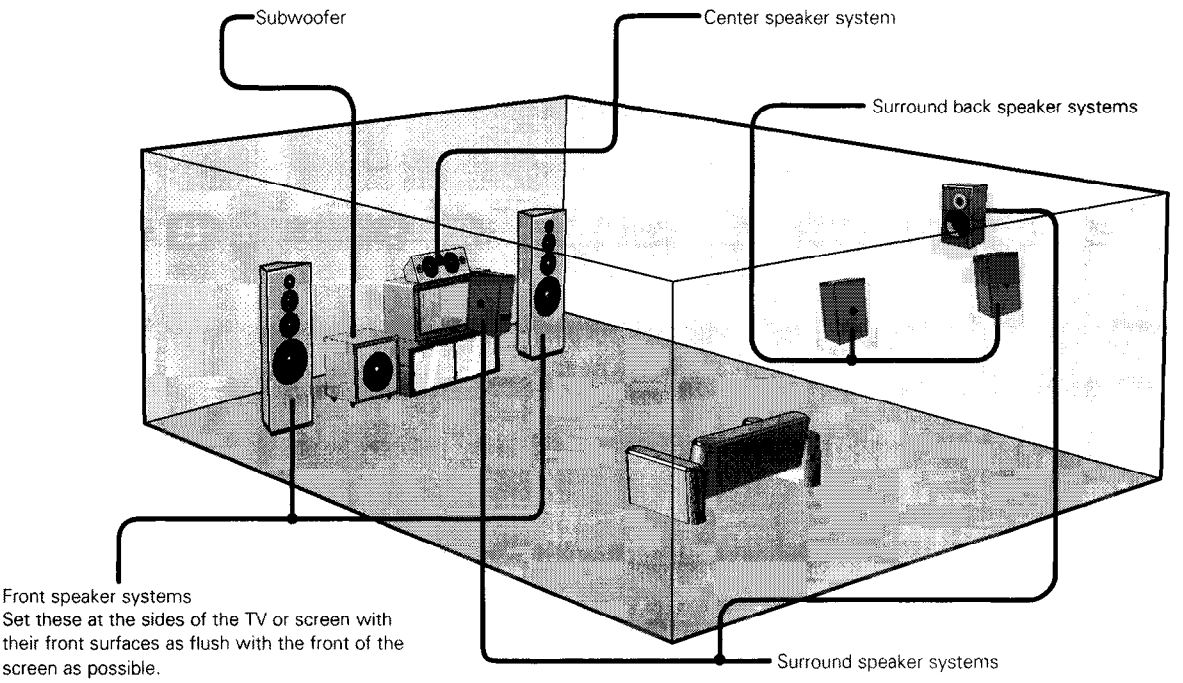
NOTES:

- The on-screen display signals are output with priority to the S-VIDEO MONITOR OUT jack during playback of a video component. For example, if the TV monitor is connected to both the AVR-5803's S-Video and video monitor output jacks and signals are input to the AVR-5803 from a video source (VDP, etc.) connected to both the S-Video and video input jacks, the on-screen display signals are output with priority to the S-Video monitor output. If you wish to output the signals to the video monitor output jack, do not connect a cord to the S-VIDEO input jack. (For details, see page 37.)
- The AVR-5803's on-screen display function is designed for use with high resolution monitor TVs, so it may be difficult to read small characters on TVs with small screens or low resolutions.
- The setup menu is not displayed when headphones are being used.

- **Speaker system layout**

Basic system layout (For a THX Surround EX system)

- The following is an example of the basic layout for a system consisting of eight speaker systems and a television monitor:

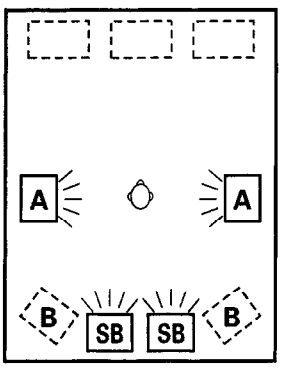

Subwoofer
Center speaker system
Surround back speaker systems
Front speaker systems
Set these at the sides of the TV or screen with their front surfaces as flush with the front of the screen as possible.
Surround speaker systems

Two surround back speakers are required to use the THX Ultra2 Cinema and THX Music modes.
Set the surround back speakers so that the distance to the listening point is the same for both the left and right speakers. It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 2 ft (60 cm).

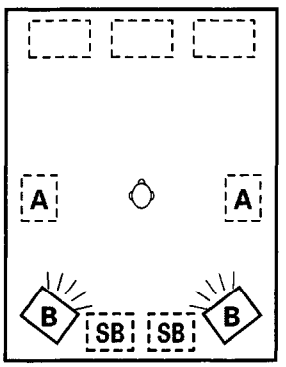
With the AVR-5803 it is also possible to use the surround speaker selector function to choose the best layout for a variety of sources and surround modes.

- **Surround speaker selector function**

This function makes it possible to achieve the optimum sound fields for different sources by switching between two systems of surround speakers (A and B). The settings of the different speakers (A only, B only or A+B) are stored in the memory for the different surround modes, so they are set automatically when the surround mode is selected.



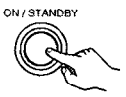
Using A only
(Multi surround speaker system)



Using B only
(Single surround speaker system)

(SB: Surround Back Speakers)

1

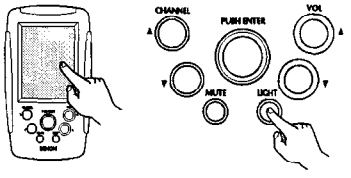


(Main unit)

Check that all the connections are correct, then turn on the main unit's power.

2

Either lightly press on the remote control unit's touch panel or press the LIGHT button to turn on the liquid crystal display. (The back light does not turn on when the touch panel is pressed.)



3

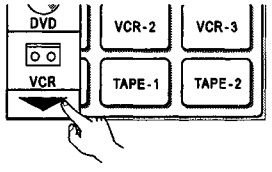
By default the liquid crystal display is set to display for 30 seconds, but this can be changed to approximately 120 seconds using the procedure described below so that operations during system up can be performed securely.

4

Lightly press the remote control unit's jog stick (PUSH ENTER) to display the icon display section.

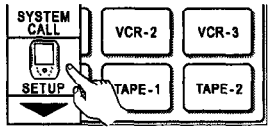
5

Press the " ▼ " button in the icon display section to display the "SETUP" icon.



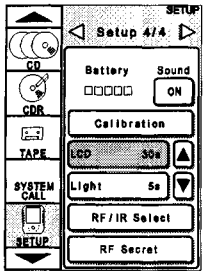
6

Press the "SETUP" icon for at least 3 seconds to display the setup screen.



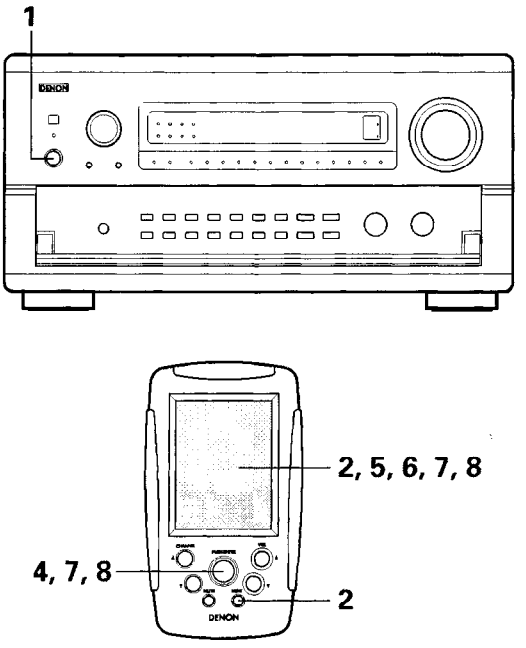
7

Push the remote control unit's jog stick to the right to display the "SETUP 4/4" page.



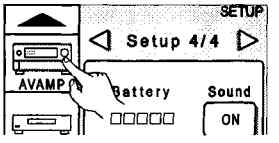
Press the "LCD 30s" button on this page so that this part is displayed in half-tone dot mesh.

Now press the "▲" button to set the time display to "120".



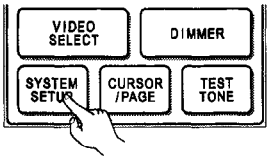
8

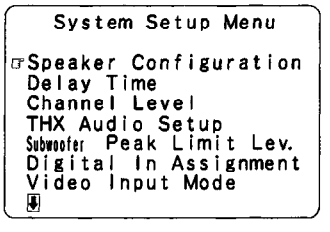
Press the " ▼ " button in the icon display section to display the "AVAMP" icon.
Press the "AVAMP" icon to display the page section.



Push the remote control unit's jog stick to the right to display the "SETUP 3/5" page.

Press "SYSTEM SETUP" at the bottom left to display the "System Setup Menu" on the TV screen.

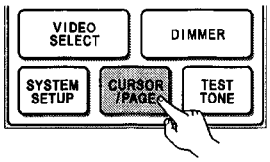




Setting the type of speakers

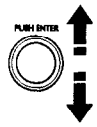
- The composition of the signals output from the different channels and the frequency response are adjusted automatically according to the combination of speakers actually being used.

1



Press "CURSOR/PAGE" at the center of the bottom line on the "AV AMP's" "SETTING 3/5" page so that this part is displayed in half-tone dot mesh.
Make the system setups by pushing the jog stick on the remote control unit forward and backward, left and right.

2

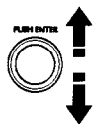


At the System Setup Menu select "Speaker Configuration".

3

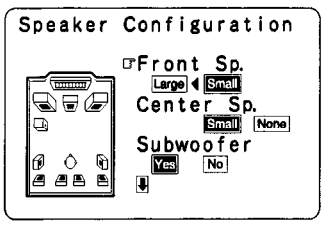
Switch to the speaker configuration screen.

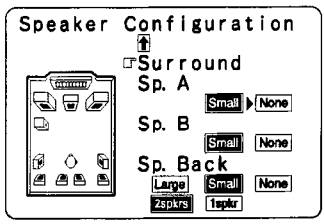
4



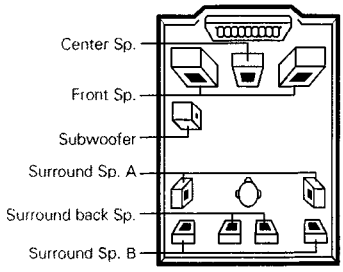
Set whether or not speakers are connected and, if so, their size parameters.

- To select the speaker





- To select the parameter



5

Enter the setting.

a) If no surround speakers are used (if "None" is set for both A and B):
The Crossover Frequency screen appears.
b) If both surround speakers A and B are used (if either "Large" or "Small" is set for both A and B):
The surround speaker setting screen appears.
c) When "Front" is set to "Large" and "Subwoofer" is set to "Yes", the set switches to the subwoofer mode.
d) If "None" is set for surround speakers A:
"None" is automatically set for surround speakers B and surround back speaker.

NOTE:

- Select "Large" or "Small" not according to the actual size of the speaker but according to the speaker's capacity for playing low frequency (bass sound below frequency set for the Crossover Frequency mode and below) signals. If you do not know, try comparing the sound at both settings (setting the volume to a level low enough so as not to damage the speakers) to determine the proper setting.

- **Parameters**

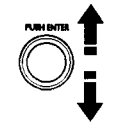
  Large.....Select this when using speakers that can fully reproduce low sounds of below 80 Hz.
  Small.....Select this when using speakers that cannot reproduce low sounds of below 80 Hz with sufficient volume.
  When this setting is selected, low frequencies of below 80 Hz are assigned to the subwoofer.
  None.....Select this when no speakers are installed.
  Yes/No.....Select "Yes" when a subwoofer is installed, "No" when a subwoofer is not installed.
  2spkrs/1spkr.....Select the number of speakers to be used for the surround back channel.

※ If the subwoofer has sufficient low frequency playback capacity, good sound can be achieved even when "Small" is set for the front, center and surround speakers.
※ To take full advantage of the performance of the Home THX certified speaker systems, set the front, center and surround speaker size parameters to "Small" and the subwoofer to "Yes".
※ For the majority of speaker system configurations, using the SMALL setting for all five main speakers and Subwoofer On with a connected subwoofer will yield the best results.
※ When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes", and when "Subwoofer" is set to "No", "Front" is automatically set to "Large".

Selecting the surround speakers for the different surround modes

- At this screen preset the surround speakers to be used in the different surround modes.

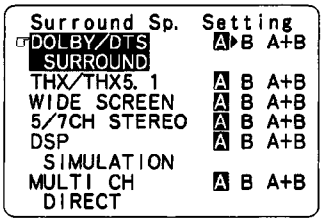
1



When either "Large" or "Small" has been set for both speakers A and B on the System Setup Menu (when using both A and B surround speakers), the surround speaker setting screen appears.
Select the surround speakers to be used in the different surround modes.
- To select the surround mode

- To select the surround speaker

A: When using surround speakers A
B: When using surround speakers B
A+B: When using both surround speakers A and B



2

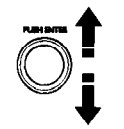
Enter the setting.
When "Front" is set to "Large" and "Subwoofer" is set to "Yes", the set switches to the subwoofer mode.

※ Speaker type setting when using both surround speakers A and B
If "Small" is set for either surround speakers A or B, the output is the same as when "Small" is set for both A and B.
※ For the "WIDE SCREEN" and "5/7CH STEREO" DSP simulation modes, the surround speakers can be set separately.

Setting the Crossover Frequency

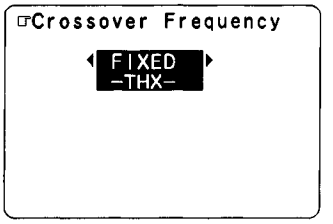
Set the crossover frequency and subwoofer mode according to the speaker system being used.

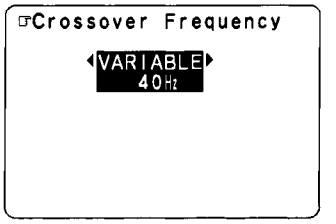
1

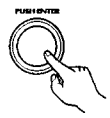


Select the Crossover Frequency mode.

To select the Crossover Frequency.





2 

Enter the setting.
The System Setup Menu reappears.

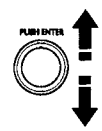
Crossover frequency

- Set the frequency (Hz) below which the bass sound of each main speakers is to output from the subwoofer or from speakers which are set to "Large" (when not using a subwoofer) (crossover frequency).
- For speakers set to "Small", sound with a frequency below the crossover frequency is cut, and instead the cut bass sound is output from the subwoofer or speakers which are set to "Large".
- This crossover frequency mode is valid when "Subwoofer" is set to "Yes" at "Speaker Configuration Setting" or when speakers are set to "Small".

FIXED –THX–:
Set to the THX rated 80 Hz crossover frequency.
VARIABLE 40, 60, 80, 100, 120 Hz:
Set as desired according to your speakers' bass playback ability.

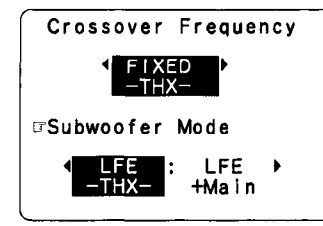
NOTES:
- The crossover frequency is set to 80 Hz in the HOME THX CINEMA mode.
- We recommend using with the crossover frequency set to "FIXED –THX–", but depending on the speaker, setting it to a different frequency may improve frequency response near the crossover frequency.

Setting the Subwoofer mode

1 

Select the subwoofer mode.

Select the setting.



2

Enter the setting.
The System Setup Menu reappears.

NOTES:

— Assignment of low frequency signal range —
- The only signals produced from the subwoofer channel are LFE signals (during playback of Dolby Digital or DTS signals) and the low frequency signal range of channels set to "Small" in the setup menu. The low frequency signal range of channels set to "Large" are produced from those channels.

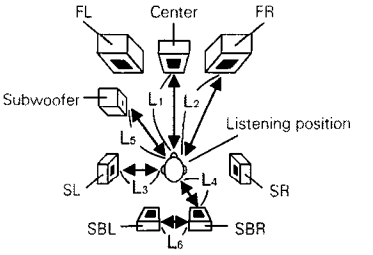
— Subwoofer mode —
- The subwoofer mode setting is only valid when "Large" is set for the front speakers and "Yes" is set for the subwoofer in the "Speaker Configuration" settings (see page 20).
- When the "LFE+Main" playback mode is selected, the low frequency signal range of channels set to "Large" are produced simultaneously from those channels and the subwoofer channel.
  In this playback mode, the low frequency range expand more uniformly through the room, but depending on the size and shape of the room, interference may result in a decrease of the actual volume of the low frequency range.
- Selection of the "LFE - THX" play mode will play the low frequency signal range of the channel selected with "Large" from that channel only. Therefore, the low frequency signal range that are played from the subwoofer channel are only the low frequency signal range of LFE (only during Dolby Digital or DTS signal playback) and the channel specified as "Small" in the setup menu. THX is recommended in this play mode so that bass interference is less likely to occur in the room.
- Select the play mode that provides bass reproduction with body.

Setting the delay time

- Input the distance between the listening position and the different speakers to set the delay time for the surround mode.
- The delay time can be set separately for surround speakers A and B.
- Two surround back speakers are required to use the THX Ultra2 Cinema and THX Music modes.
  Set the surround back speakers so that the distance to the listening point is the same for both the left and right speakers.
  It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 2 ft (60 cm).

Preparations:
Measure the distances between the listening position and the speakers (L1 to L6 on the diagram at the right).

- L1: Distance between center speaker and listening position
- L2: Distance between front speakers and listening position
- L3: Distance between surround speakers and listening position
- L4: Distance between surround back speakers and listening position
- L5: Distance between subwoofer and listening position
- L6: Distance between surround back L and surround back R



1

At the System Setup Menu select "Delay Time".

```
System Setup Menu

 Speaker Configuration
☞Delay Time
 Channel Level
 THX Audio Setup
 Subwoofer Peak Limit Lev.
 Digital In Assignment
 Video Input Mode
```

2

Switch to the Delay Time screen.

```
Delay Time

Set The Distance To
Each Speakers

Do You Prefer
 In Meters? / In Feet?

☞Meters ◂:▸ Feet
```

3

Select the desired unit, meters or feet.
Select (darken) the desired units, "Meters" or "Feet".

```
Delay Time

Set The Distance To
Each Speakers

Do You Prefer
 In Meters? / In Feet?

☞Meters ◂:▸ Feet
```

Example: When "Feet" is selected

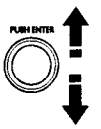
---

4 Once "Meter" or "Feet" is selected in Step 3, the Delay Time screen appears automatically.

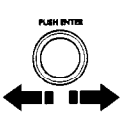
```
Delay Time
        Step    ◂ 1ft▸
        Default   Yes◂
☞FL          ◂12.0ft▸
 FR           12.0ft
 Center       12.0ft
 Subwoofer    12.0ft
```

```
Delay Time
☞SL A        ◂10.0ft▸
 SR A         10.0ft
 SL B         10.0ft
 SR B         10.0ft
 SBL          10.0ft
 SBR          10.0ft
```

---

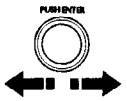
5 

Select the speaker to be set.

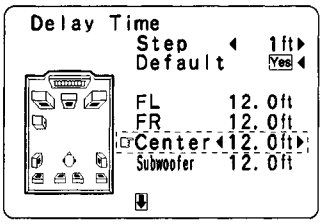


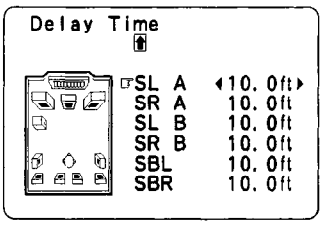
※ When "Step" is selected, it is possible to switch between "1 ft" and "0.1 ft".

6



Set the distance between the center speaker and listening position.
The distance changes in units of 0.1 foot (0.03 meters) each time the button is pressed. Select the value closest to the measured distance.

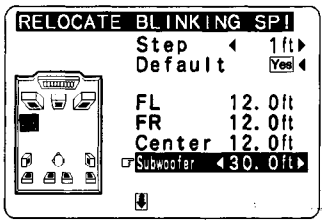




Example: When the distance is set to 12 feet for the center speaker

※ If "Yes" is selected for "Default", the settings are automatically reset to the default values.

Please note that the difference of distance for every speaker should be 20 ft (6.0 m) or less. If you set an invalid distance, a CAUTION notice, such as screen right will appear. In this case, please relocate the blinking speaker(s) so that its distance is no larger than the value shown in highlighted line.



7

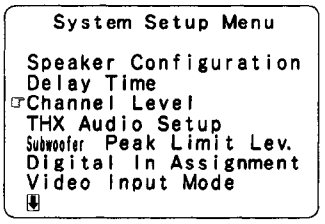
Enter the setting.
The System Setup Menu reappears.
The AVR-5803 automatically sets the optimum surround delay time for the listening room.

Setting the channel level

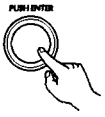
- Use this setting to adjust so that the playback level between the different channels is equal.
- From the listening position, listen to the test tones produced from the speakers to adjust the level.
- The level can also be adjusted directly from the remote control unit. (For details, see page 48.)
- When using both surround speakers A and B, their playback levels can be adjusted separately.

1

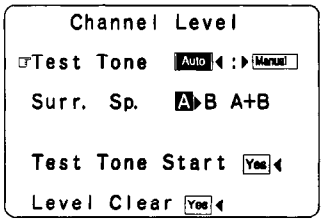
At the System Setup Menu select "Channel Level".



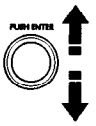
2



Switch to the Channel Level screen.



3

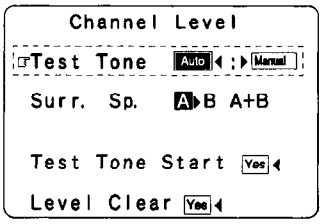


Select "Test Tone Mode".

4

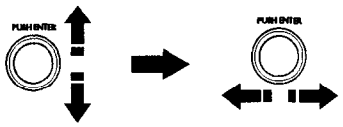
Select the mode.
Select "Auto" or "Manual".

- Auto:
  Adjust the level while listening to the test tones produced automatically from the different speakers.
- Manual:
  Select the speaker from which you want to produce the test tone to adjust the level.



Example: When the "Auto" mode is selected

5

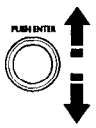


Select "Surr. Sp.", then select the surround speaker(s) from which you want to produce the test tone (A, B or A+B).

- Surr. Sp.: A
  Adjusts the balance of the playback level between the channels when using surround speaker A.
- Surr. Sp.: B
  Adjusts the balance of the playback level between the channels when using surround speaker B.
- Surr. Sp.: A+B
  Adjusts the balance of the playback level between the channels when using surround speakers A and B at the same time.

※ The "Surr. Sp." can only be selected when both surround speakers A and B have been selected at the "Speaker Configuration" (when both A and B have been set to "Large" or "Small").

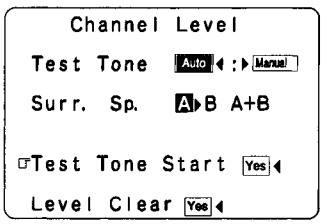
6



Select "Test Tone Start".

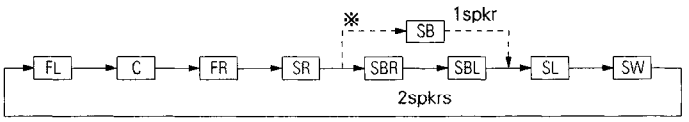
7

Select "Yes".



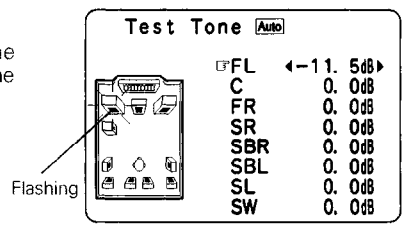
8

a. If the "Auto" mode is selected:
Test tones are automatically emitted from the different speakers.
The test tones are emitted from the different speakers in the following order, at 4-second intervals the first time and second time around, 2-second intervals the third time around and on:

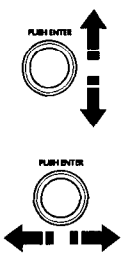


※ When the surround back speaker setting is set to "1spkr" for "Speaker Configuration", this is set to "SB".

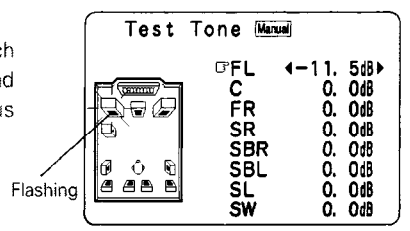
Use the CURSOR buttons to adjust all the speakers to the same volume.
The volume can be adjusted between –12 dB and +12 dB in units of 0.5 dB.



Example: When the volume is set to –11.5 dB while the test tone is being produced from the FL.



b. When the "Manual" mode is selected
Move jog stick "ENTER" back and forth to select the speaker for which you want to output test tones, then move jog stick "ENTER" left and right to adjust so that the volume of the test tones from the various speakers is the same.



Example: When the volume is set to –11.5 dB while the FL is selected.

9

After the above settings are completed, press jog stick "ENTER".
The "Channel Level" screen reappears.
Press jog stick "ENTER" again to return to the System Setup Menu screen.

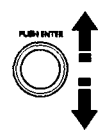
※ To cancel the settings, select "Level Clear" and "Yes" on the "Channel Level" screen, then make the settings again.

The level of each channel should be adjusted to 75 dB (C-weighted, slow meter mode) on a sound level meter at the listening position.
If a sound level meter is not available adjust the channels by ear so the sound levels are the same. Because adjusting the subwoofer level test tone by ear is difficult, use a well known music selection and adjust for natural balance.
NOTE: When adjusting the level of an active subwoofer system, you may also need to adjust the subwoofer's own volume control.

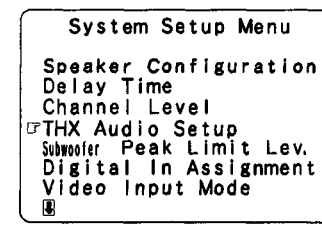
※ When you adjust the channel levels while in the SYSTEM SETUP CHANNEL LEVEL mode, the channel level adjustments made will affect ALL surround modes. Consider this mode a Master Channel Level adjustment mode.
※ After you have completed the SYSTEM SETUP CHANNEL LEVEL adjustments, you can then activate the individual surround modes and adjust channel levels that will be remembered for each of those modes. Then, whenever you activate a particular surround sound mode, your preferred channel level adjustments for just that mode will be recalled. Check the instructions for adjusting channel levels within each surround mode on page 48.
※ You can adjust the channel levels for each of the following surround modes: DIRECT, STEREO, 5CH/7CH STEREO, DOLBY/DTS SURROUND, HOME THX CINEMA, WIDE SCREEN, SUPER STADIUM, ROCK ARENA, JAZZ CLUB, CLASSIC CONCERT, MONO MOVIE, and MATRIX.
※ When using either surround speakers A or B, or when using surround speakers A and B at the same time, be sure to adjust the balance of playback levels between each channel for the various selections of "A or B" and "A and B".

Settings for using a THX Ultra2 compatible subwoofer

Make these settings when "Yes" is selected for the subwoofer in the Speaker Configuration settings.
There is not displayed when "No" selected. (page 20)

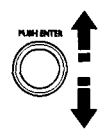
1 

Select "THX Audio Setup" on the System Setup Menu screen.

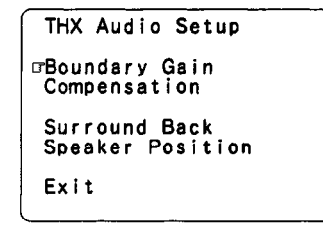


2

Press jog stick "ENTER" to switch to the THX Audio Setup screen.

3 

Select "Boundary Gain Compensation", then press jog stick "ENTER".



4

When using a THX Ultra2 compatible subwoofer or subwoofer that frequency response extends to 20 Hz, select "Yes". Otherwise select "No".

```
☞Do You Have
 A THX Ultra2 Subwoofer
 (Or Sub That
  Extends To 20Hz) ?
    Yes◀:▶No
```

- When "Yes" is selected
  "Boundary Gain Compensation" can be selected and the compensation set to "OFF".
- If the bass sound seems too strong
  Set "Boundary Gain Compensation" to "ON". This activates a circuit that cuts the low frequencies of 55 Hz and under. Select "ON" or "OFF" according to how strong you like the bass sound to be.

```
☞Do You Have
 A THX Ultra2 Subwoofer
 (Or Sub That
  Extends To 20Hz) ?
    Yes◀:▶No

 Boundary Gain
 Compensation
    ON◀:▶OFF
```

5

Press jog stick "ENTER" to return to the THX Audio Setup screen.

Surround Back Speaker Position Settings

- When two surround back speakers have been set in the Speaker Configuration settings (page 20), set the distance of the speakers. There is not displayed when "1spkr" selected.
- This setting is necessary to achieve the optimum effect in the THX Surround EX, THX Ultra2 Cinema and THX Music modes. It is recommended that SBL/SBR speakers are placed together as close as possible.

1

Select "Surround Back Speaker Position" on the THX Audio Setup screen, then press jog stick "ENTER".

```
 THX Audio Setup

 Boundary Gain
 Compensation

☞Surround Back
 Speaker Position

 Exit
```

2

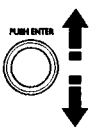
Select the settings according to the distances of the two surround back speakers. (page 23)

```
 Set The Distance
 Between SBL/SBR

   ◀   0ft to 1ft   ▶
       (0m to 0.3m)
```

3

Press jog stick "ENTER" to return to the THX Audio Setup screen.

4



Select "Exit" then press the ENTER button to return to the System Setup Menu screen.

```
 THX Audio Setup

 Boundary Gain
 Compensation

 Surround Back
 Speaker Position

☞Exit
```

Subwoofer peak limit level setting

- This unit features a subwoofer peak limit control which prevents distortion and damage in the loudspeaker system by controlling the maximum bass volume level. With this feature you may set the maximum bass level for the system.
- This feature operates with or without a subwoofer in the system.

1

At the System Setup Menu select "Subwoofer Peak Limit Lev.".

```
System Setup Menu

Speaker Configuration
Delay Time
Channel Level
THX Audio Setup
☞Subwoofer Peak Limit Lev.
Digital In Assignment
Video Input Mode
```

2

Switch to the Subwoofer Peak Limit Level Setting screen.

```
Subwoofer Peak
 Limit Level Setting

Find The Level When
Distortion Begins.

☞Peak Limiter  ON◀:▶OFF
```

3

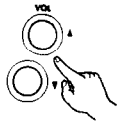
Select "ON" for Peak Limiter.

4

The screen switches. Select "Setting Start", then select "Yes".
The screen switches and a test noise is produced from the speaker system.

```
Subwoofer Peak
 Limit Level Setting

Find The Level When
Distortion Begins.

☞Peak Limiter  ON◀:▶OFF
 Setting Start Yes◀

 [ Peak Limiter -18dB ]
```

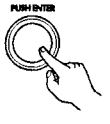
5



Increase the master volume level until the test noise is distorted.
The test noise (bass sound) is distorted when it sounds as if the input is excessively high (when the sound crackles).

```
Subwoofer Peak
 Limit Level Setting

Turn Up The Volume
With
Master Vol. Up Button

When Distortion Begins
Push Enter Button.
```

6



Press the ENTER button at the point where the test noise starts sounding distorted.
The AVR-5803 automatically sets the subwoofer peak limit level.
This prevents future inadvertent subwoofer overload due to excessively strong bass content when the master volume control is at a high level.

※ Clear the subwoofer's peak limit level setting by specifying "Peak Limiter" and "OFF".

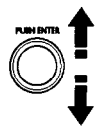
CAUTION!

- The master volume is set to "–30 dB" when test tones are output.
- The test tones are for confirming the low frequency playback limits and are played at an extremely high level. When using a low output subwoofer, be very careful about irregular operations exceeding clipping by for example turning down the subwoofer's attenuator before starting then slowly turning the attenuator up to the listening level.
- Also, when the subwoofer is set to "NO" in the speaker configuration, the test tones are output from the front speakers. When using front speakers with low input resistance, check that the sound is not clipped at sections where the signal is strong on the CD music source before starting the peak limit setting. The peak limit setting should not be performed if the music source cannot be played with the master volume set at "–15". Set the front speakers to "small" and the subwoofer to "YES" in the speaker configuration. When this is done, the low frequencies are cut, so the effect is insufficient. We strongly recommend adding a subwoofer.
- If the test tone is clipped when it is set to "–18 dB", set the peak limit to "–18 dB". In this case, the input resistance of the subwoofer or front speakers is insufficient so clipping may occur when playing music. We recommend switching to a subwoofer with a higher input resistance.

Setting the Digital In Assignment

- This setting assigns the digital input jacks of the AVR-5803 for the different input sources.

1



At the System Setup Menu select "Digital In Assignment".

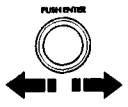
```
System Setup Menu

Speaker Configuration
Delay Time
Channel Level
THX Audio Setup
Subwoofer Peak Limit Lev.
☞Digital In Assignment
Video Input Mode
```

2

Switch to the Digital In Assignment screen.

```
Digital In Assignment

☞CD : ◂COAX1▸     V.AUX: COAX5
 DVD: COAX2       TAPE-1: OPT5
 VDP: COAX3       TAPE-2: OPT6
 TV : OPT1
 DBS: OPT2
 VCR-1: OPT3      Default◂Yes▸
 VCR-2: OPT4
 VCR-3: COAX4
```

3



Select the digital input jack to be assigned to the input source.

- To select the input source
- To select the digital input jack

Select "OFF" for input sources for which no digital input jacks are used.

※ If "Yes" is selected for "Default", the settings are automatically reset to the default values.

4

Enter the setting.
The System Setup Menu reappears.

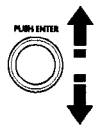
NOTES:

- The OPTICAL 5 and 6 jacks on the AVR-5803's rear panel are equipped with an optical digital output jack for recording digital signals on a DAT deck, MD recorder or other digital recorder. Use this for digital recording between a digital audio source (stereo - 2 channel) and a digital audio recorder.
- Do not connect the output of the component connected to the OPTICAL 5 OUT jack on the AVR-5803's rear panel to any jack other than the OPTICAL 5 IN jack.
- Do not connect the output of the component connected to the OPTICAL 6 OUT jack on the AVR-5803's rear panel to any jack other than the OPTICAL 6 IN jack.
- "PHONO" and "TUNER" cannot be selected on the Digital In Assignment screen.

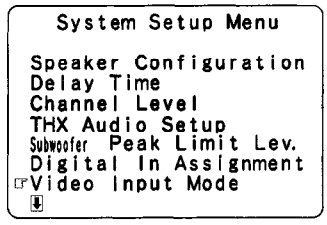
Setting the Video Input Mode

- Select the input signal to be output from the video monitor output terminal. (For details, refer to page 81.)

1

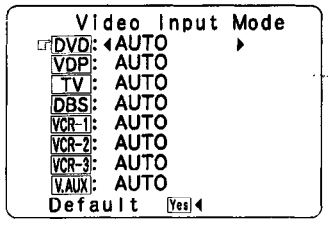


At the System Setup Menu select "Video Input Mode".

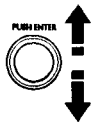


2

Switch to the Video Input Mode screen.



3



① Select the input source for which you want to set the Video Input Mode.

② Select the mode.

AUTO: When there are multiple input signals, the input signals are detected and the input signal to be output from the video monitor output terminal is selected automatically in the following order: component video, S-Video, composite video.

Component: The signal connected to the component video terminal is always played.
Video conversion is not conducted, so no image is output from the monitor output terminal when there is no input signal to the component terminal.
Only DVD, TV and DBS can be selected.

S-Video: The signal connected to the S-Video terminal is always played.
The S-Video input signal is up-converted and output from the component monitor output terminal.

Video: The signal connected to the composite video terminal is always played.
The composite video input signal is up-converted and output from the S-Video and component monitor output terminals.

NOTE:
Down-converting from the component video signal to the S-Video and composite video signal is not possible, so when not using the component video monitor output terminal connect the player using the S-Video or composite video input terminal.

4

Enter the setting.
The System Setup Menu reappears.

Setting the Audio Delay

This function allows you to adjust the time delay of the video and audio signals and store these settings for the different input sources.
The setting is made while watching a DVD or other software, so it is not made here.
By default, this is not displayed when no digital signals are being input.
For instructions on making the setting, refer to page 56.

Setting the Multi Zone Control

The AVR-5803 is equipped with two sets of multi-zone outputs.
Multi-zone 1 is a pre-output with an output level adjustment function.
Multi-zone 2 is a fixed output level pre-output. Using the power amplifier assignment function described below, it is also possible to connect speakers to the multi-zone 2 speaker terminals.

[1] Setting the multi-zone 1 vol. level

1

At the System Setup Menu, select "Multi Zone Control".

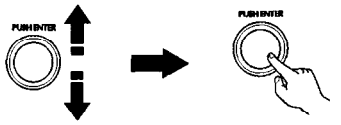
```
System Setup Menu
Audio Delay
☞Multi Zone Control
Auto Surround Mode
Ext. In Setup
Digital Multi Ch In
On Screen Display
Auto Tuner Presets
Setup Lock
```

2

Press jog stick "ENTER" to switch to the "Multi Zone Control" screen.

```
Multi Zone Control
☞Multi Zone1 Vol. Level
Power Amp Assignment
Exit
```

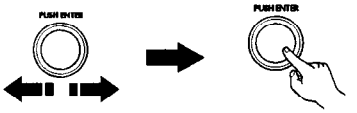
3



Select "Multi Zone1 Vol. Level" then press jog stick "ENTER".

4

Select the desired setting, then press jog stick "ENTER".



```
Multi Zone1 Vol. Level
Variable ▸ -40dB   0dB
```

Variable:
The level can be adjusted freely using the buttons on the remote control unit (M. ZONE 1 4/5, VOLUME UP and VOLUME DOWN).

-40 dB, 0 dB:
The output level is fixed at the set level and the volume can no longer be adjusted.

[2] Power amplifier assignment function setting

Make this setting to switch the power amplifier for the surround back channel to Multi-zone 2.

1

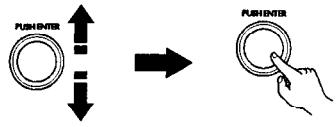
At the System Setup Menu, select "Multi Zone Control".

```
System Setup Menu
Audio Delay
☞Multi Zone Control
Auto Surround Mode
Ext. In Setup
Digital Multi Ch In
On Screen Display
Auto Tuner Presets
Setup Lock
```

2

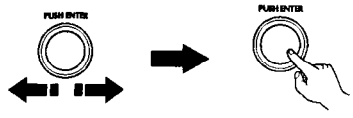
Press jog stick "ENTER" to switch to the "Multi Zone Control" screen.

```
Multi Zone Control
☞Multi Zone1 Vol. Level
 Power Amp Assignment
 Exit
```

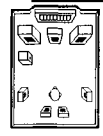
3 

Select "Power Amp Assignment" then press jog stick "ENTER".

4 Select "Surround Back" to use as the surround back channel, "Zone-2" to use as multi-zone 2, then press jog stick "ENTER".

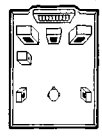


```
Power Amp Assignment
◂SurroundBack : M-Zone2▸
```



When "Surround Back" is selected

```
Power Amp Assignment
◂SurroundBack : M-Zone2▸
```



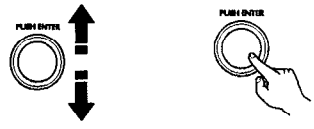
When "M-Zone2" is selected

Setting the Auto Surround Mode

The surround mode last used for the four types of input signals shown below is stored in the memory and the signal is automatically played with that surround mode the next time it is input.
Note that the surround mode setting is also stored separately for the different input sources.

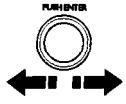
① Analog and PCM 2-channel signals
② 2-channel signals of Dolby Digital, DTS or other multichannel format
③ Multichannel signals of Dolby Digital, DTS or other multichannel format
④ Multi-channel signal when conducting playback using the EXT.IN-1, EXT.IN-2 and DENON LINK terminals

※ During playback in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

1 

Select "Auto Surround Mode" on the System Setup Menu screen, then press jog stick "ENTER".

```
System Setup Menu
 Audio Delay
 Multi Zone Control
☞Auto Surround Mode
 Ext. In Setup
 Digital Multi Ch In
 On Screen Display
 Auto Tuner Presets
 Setup Lock
```

2 

Select "ON" if you want to use the auto surround mode, "OFF" if you do not want to use it.

```
Auto Surround Mode

ON◂:▸OFF
```

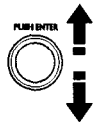
3

Enter the setting.
The System Setup Menu reappears.

Setting the Ext. In Setup

- Set the method of playback of the analog input signal connected to the Ext.In-1 and Ext.In-2 terminal.

1



At the System Setup Menu select "Ext.In Setup".

```
System Setup Menu
Audio Delay
Multi Zone Control
Auto Surround Mode
☞Ext. In Setup
Digital Multi Ch In
On Screen Display
Auto Tuner Presets
Setup Lock
```

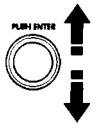
2

Switch to the Ext.In Setup screen.

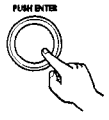
```
Ext. In Setup

☞EXT. IN-1
EXT. IN-2
EXIT
```

3

① Select the input terminal.



② Switch to the setting screen.



```
EXT. IN-1 Setup

☞Mode          ◂  DSP   ▸
 S. Back       ◂NOT USED▸
 SW Level      ◂  +15dB ▸
 Input Vol.    ◂   0dB  ▸
```

4

Select the item to be set (push the jog stick to the up and down) then select the parameter (push the jog stick to the left and right).

MODE:

DSP: The analog input signal is converted into a digital signal and undergoes DSP processing.
System Setup settings (speaker configuration, channel delay, etc.) are reflected in the same way as for other input signals.

ANALOG: The analog input signal is played without DSP processing.
SW and center channel: Down-mixing is conducted by the analog circuit. Surround and surround back channels: Not output if "No" is selected at the speaker configuration. Channel delay: Not reflected.

S.Back:

Set when MODE is set to DSP. Select according to the specifications of the player being used. Also refer to the player's operating instructions.

NOT USE: Select when neither SBL or SBR is connected.
SB (SBL): Select when only one surround back channel (SBL) is connected.
SBL/SBR: Select when two surround back channels (SBL and SBR) are connected.

SW Level:

Select according to the specifications of the player being used. Also refer to the player's operating instructions.
+15dB (default) recommended. (0, +5, 10 and +15 can be selected.)

INPUT Vol.:

Set when MODE is set to DSP.
If the OVER LOAD indicator is displayed on the fluorescent tube, adjust the input level to between 0 and -20 dB.

5

Enter the setting.
The System Setup Menu reappears.

Setting the Digital Multi Ch In

1

Select "Digital Multi Ch In" on the System Setup Menu screen, then press jog stick "ENTER".

```
System Setup Menu
Audio Delay
Multi Zone Control
Auto Surround Mode
Ext. In Setup
☞Digital Multi Ch In
On Screen Display
Auto Tuner Presets
Setup Lock
```

2

To set, select "Yes" and press jog stick "ENTER".

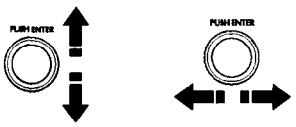
```
Digital Multi Ch In
Extra Digital In
Setting.
Yes◀ ; ▶No
```

```
Digital Multi Ch In
☞DENON Link      ◀OFF▶
Digital Ext. In  ◀OFF▶
```

3

DENON Link setting :

Set this when connecting a Denon DVD player using the Denon Link terminal.
Set to "ON" if you want to use the terminal, "OFF" if you do not want to use it.



Select "DENON Link" (using the up and down cursor buttons) then select ON or OFF (using the left and right jog stick).

```
Digital Multi Ch In
☞DENON Link      ◀ON▶
  No Digital     ◀ANALOG▶
  Signal
Digital Ext. In  ◀ON▶
  S. Back        ◀NOT USED▶
```

When set to "ON", also set the playback input when there is no digital signal.

ANALOG:	The analog input of the input source assigned to Denon Link is played.
EXT-1:	The EXT.IN-1 input is played.
EXT-2:	The EXT.IN-2 input is played.

NOTE:

- When playing using the DENON LINK terminal, also connect the analog external input terminal (EXT-1) (see page 12) and set the "No Digital Signal" setting to "EXT-1".

Digital Ext. In setting :

This is set for the Digital Ext. In input using the Coaxial 1 to 4 inputs.

Select "Digital Ext.In" (using the up and down cursor buttons) then select ON or OFF (using the left and right jog stick).
When set to "ON", the four terminals (Coaxial 1 to 4) are assigned to the desired input source as a single digital multichannel input.
When set to "OFF" the four terminals (Coaxial 1 to 4) are assigned to individual input sources.

```
Digital Multi Ch In
DENON Link       ◀ON▶
  No Digital     ◀ANALOG▶
  Signal
☞Digital Ext. In ◀ON▶
  S. Back        ◀NOT USED▶
```

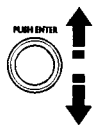
When "ON" was selected at "Digital Ext. In", set the surround back channel input.
If you do not want to use the surround back channel.....NOT USED
If you do want to use the surround back channel, set according to the specifications of the connected player.

4

Enter the setting.
The System Setup Menu reappears.

Setting the on-screen display (OSD)

- Use this to turn the on-screen display (messages other than the menu screens) on or off.

1 

At the System Setup Menu select "On Screen Display".

```
System Setup Menu
Audio Delay
Multi Zone Control
Auto Surround Mode
Ext. In Setup
Digital Multi Ch In
☞On Screen Display
Auto Tuner Presets
Setup Lock
```

2

Switch to the On Screen Display screen.

```
On Screen Display

ON◀:▶OFF
```

3

Select "ON" or "OFF".

4

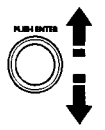
Enter the setting.
The System Setup Menu reappears.

Auto tuner presets

Use this to automatically search for FM broadcasts and store up to 40 stations at preset channels A1 to 8, B1 to 8, C1 to 8, D1 to 8 and E1 to 8.

NOTE:

- If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.

1 

At the System Setup Menu select "Auto Tuner Presets".

```
System Setup Menu
Audio Delay
Multi Zone Control
Auto Surround Mode
Ext. In Setup
Digital Multi Ch In
On Screen Display
☞Auto Tuner Presets
Setup Lock
```

2

Switch to the Auto Preset Memory screen.

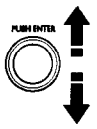
```
Auto Preset Memory

   Auto Turning &
Preset Station Memory
Storing Preset Memory

☞Start Yes◀
```

3

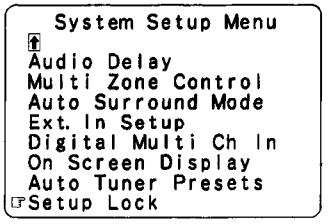
Select "Yes" for Start.
"Search" flashes on the screen and searching begins.
"Completed" appears once searching is completed.
The display automatically switches to screen.

Protecting the setting

The system setup settings can be locked so that they cannot be changed easily.

1 

Select "Setup Lock" on the System Setup Menu screen.

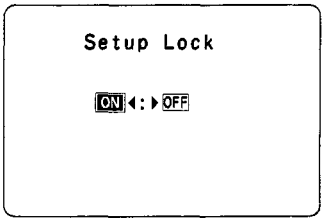


2

Press jog stick "ENTER" to switch to the Setup Lock screen.

3

Select "ON", to lock the system setup settings.



4

Press jog stick "ENTER" to finalize the setting and exit the system setup mode.

When the setup lock function is activated, the settings listed below cannot be changed, and "Setup Locked" is displayed when related buttons are operated.

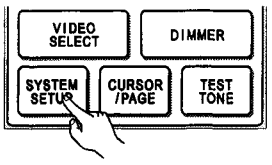
- System setup settings
- Surround parameter settings
- Tone control settings
- Channel level settings (including test tones)

To unlock, press the System Setup button again and display the Setup Lock screen, then select "OFF" and press jog stick "ENTER".

※ This completes system setup. Once these settings are made, there is no need to change them unless different AV components are connected or the speakers are repositioned.

After completing system setup

This button can be pressed at any time during the system setup process to complete the process.

1 

At the System Setup Menu, press the SYSTEM SETUP button.
※ The changed settings are entered and the on-screen display turns off.

※ Finally set the remote control unit (RC-8000) display time setting to a time that is short but long enough that operation is possible. (page 19)

- **On-screen display signals**

	Signals input to the AVR-5803		On-screen display signal output (MONITOR output jacks)		
	VIDEO signal input jack (yellow)	S-video signal input jack	VIDEO signal output jack (yellow)	S-video signal output jack	Component video signal output jack
1	○	×	○	○	○
2	×	○	○	○	○
3	○	○	×	○	○

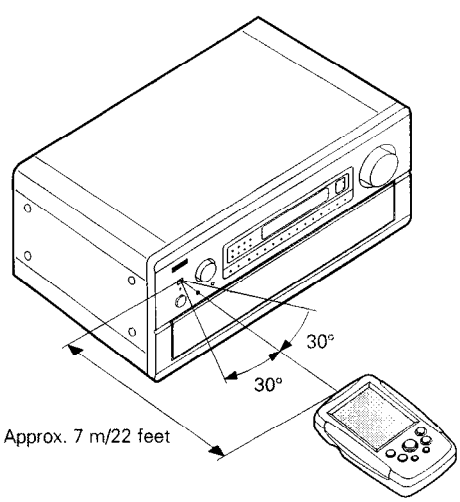
(○: Signal ×: No signal) (○: On-screen signals output ×: On-screen signals not output)

NOTE:
- When a component video signal is input and when the "Video Input Mode" is set to the component fixed mode at system setup, the on-screen display is only displayed when the System Setup, Surround Parameters and On Screen buttons are operated.

8 REMOTE CONTROL UNIT

- The included remote control unit (RC-8000) can be used to operate not only the AVR-5803 but other remote control compatible DENON components as well. Furthermore, it is equipped with a function for learning the control signals of remote control units of other manufacturers, so it can also be used to operate non-DENON remote control compatible video components.
- **For details, refer to the separate (supplied) RC-8000 operating instructions.**

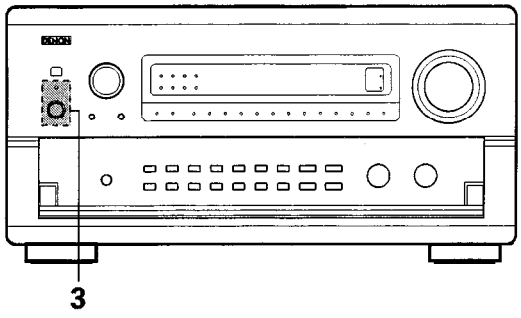
Using the remote control unit

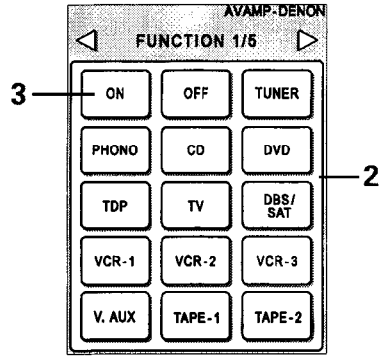


- Point the remote control unit at the remote sensor on the main unit as shown on the diagram.
- The remote control unit can be used from a straight distance of approximately 7 meters/22 feet from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor.
- The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor.

NOTES:
- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.
- Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

Before operating

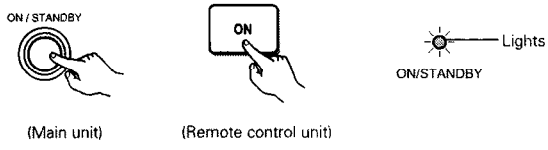




1 Refer to "CONNECTIONS" (pages 6 to 14) and check that all connections are correct.

2 To operate with the remote control unit, set the remote control unit's screen to the "AVAMP 1/5" page.

3 Turn on the power.
Press the POWER operation switch (button).

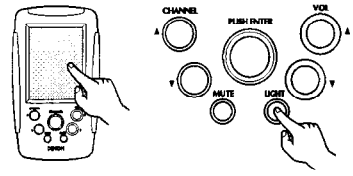


- When pressed, the power turns on and the display lights. The sound is muted for several seconds, after which the unit operates normally.
- When pressed again, the power turns off, the standby mode is set and the display turns off.
- Whenever the ON/STANDBY button is in the STANDBY state, the apparatus is still connected to the AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation.

Operating the remote control unit

- **For details, refer to the separate (supplied) RC-8000 operating instructions.**

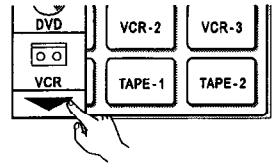
1 Either lightly press on the remote control unit's touch panel or press the LIGHT button to turn on the liquid crystal display.



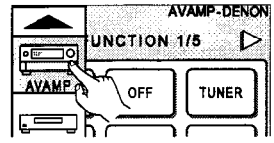
2 **Remote control unit's jog stick**

Lightly press "ENTER" to display the icons.

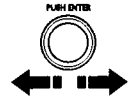
Press the "▼" button on the icon display section to display the "AVAMP" icon.



Press the "AVAMP" icon to display the page section.



Move the remote control unit's jog stick "ENTER" left and right to display the necessary page.



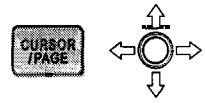
3 When the CURSOR/PAGE button is pressed and the display is in half-tone dot mesh, the joystick operates as the cursor up/down and left/right buttons and the ENTER button. **(This is called the cursor mode.)**

The display switches between normal and half-tone dot mesh each time the CURSOR/PAGE button is pressed, thus switching between the page mode and the cursor mode. **(When the display is normal, the page mode is set.)**

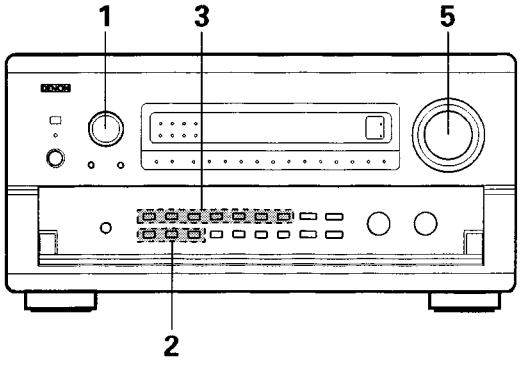
Normal display (page mode)

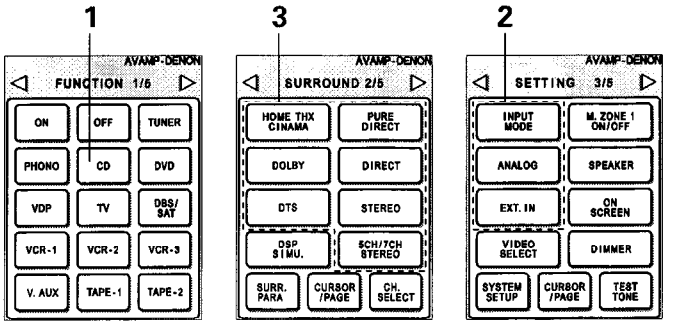
Page feeding

Half-tone dot mesh display (cursor mode)



Cursor up/down, left/right and ENTER button





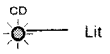
1

Select the input source to be played.

Example: CD

(Main unit) (Remote control unit)

※ When the input source is selected, the input indicator lights.



2

Select the input mode.

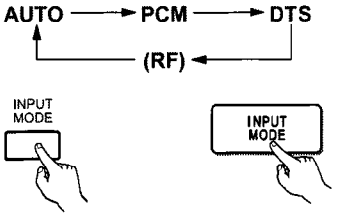
- Selecting the analog mode
  Press the ANALOG button to switch to the analog input.

(Main unit) (Remote control unit)

- Selecting the external input (EXT. IN) mode
  Press the EXT. IN (on the EXT. IN button on the remote control unit) to switch the external input.

(Main unit) (Remote control unit)

- Selecting the AUTO, PCM and DTS modes
  The mode switches as shown below each time the INPUT MODE button is pressed.



(Main unit) (Remote control unit)

Input mode selection function

Different input modes can be selected for the different input sources. The selected input modes for the separate input sources are stored in the memory.

① AUTO (All auto mode)
In this mode, the types of signals being input to the digital and analog input jacks for the selected input source are detected and the program in the AVR-5803's surround decoder is selected automatically upon playback. This mode can be selected for all input sources other than PHONO and TUNER.
The presence or absence of digital signals is detected, the signals input to the digital input jacks are identified and decoding and playback are performed automatically in DTS, Dolby Digital or PCM (2 channel stereo) format. If no digital signal is being input, the analog input jacks are selected.
Use this mode to play Dolby Digital signals.

② PCM (exclusive PCM signal playback mode)
Decoding and playback are only performed when PCM signals are being input.
Note that noise may be generated when using this mode to play signals other than PCM signals.

③ DTS (exclusive DTS signal playback mode)
Decoding and playback are only performed when DTS signals are being input.

④ RF (exclusive RF signal playback mode)
This can only be selected when the program source is set to VDP. Decoding and playback are only performed when RF signals are being input. This is used when the LD player has an Dolby Digital-RF (AC-3RF) output jack, but does not have a PCM digital output jack.

⑤ ANALOG (exclusive analog audio signal playback mode)
The signals input to the analog input jacks are decoded and played.

⑥ EXT. IN (external decoder input jack selection mode)
The signals being input to the external decoder input jacks are played. (page 44)

NOTE:

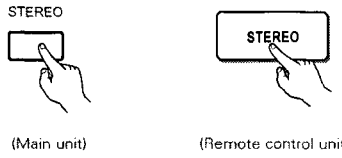
- Note that noise will be output when CDs or LDs recorded in DTS format are played in the "PCM" or "ANALOG" mode. Select the "DTS" mode when playing signals recorded in DTS from a laser disc player or CD player.

Note on playing a source encoded with DTS

- **Noise may be generated at the beginning of playback and while searching during DTS playback in the AUTO mode. If so, play in the DTS mode.**

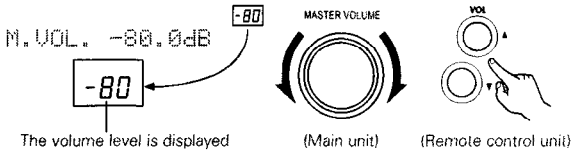
3 Select the play mode.

Example: Stereo



4 Start playback on the selected component.
- For operating instructions, refer to the component's manual.

5 Adjust the volume.



※ The volume can be adjusted within the range of –80 to 0 to 18 dB, in steps of 0.5 dB. However, when the channel level is set as described on page 24 or page 48, if the volume for any channel is set at +1 dB or greater, the volume cannot be adjusted up to 18 dB. (In this case the maximum volume adjustment range is "18 dB — (Maximum value of channel level)".)

Input mode when playing DTS sources
- Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode.
  When playing DTS-compatible sources, be sure to connect the source component to the digital input jacks (OPTICAL/COAXIAL) and set the input mode to "AUTO" or "DTS".

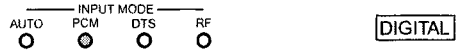
NOTE:
- The digital input indicator will light (green) when playing CD-ROMs containing data other than audio signals, but no sound will be heard.

Input mode display

One of these lights, depending on the input signal.

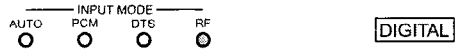
- In the AUTO mode

- In the PCM mode

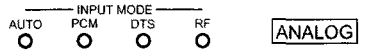


- In the DTS mode

- When switched to RF in the VDP RF or AUTO mode



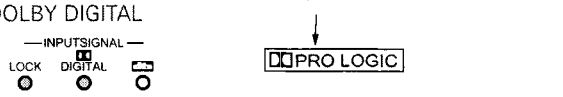
- In the ANALOG mode



Input signal display

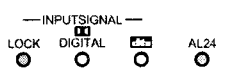
One of these lights, depending on the input signal.

- DOLBY DIGITAL



- DTS

- PCM



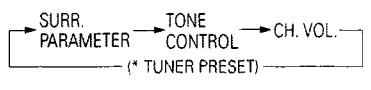
※ The AL24 indicator lights when the PURE DIRECT, DIRECT or STEREO mode is selected in the digital input mode.
※ The LOCK LED lights when digital signals are being input properly. If the LED does not light, check whether the digital input component setup (page 29) and connections are correct and whether the component's power is turned on.

After starting playback

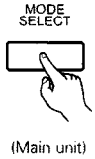
[1] Adjusting the sound quality (tone)

The tone control function will not work in the Direct or Home THX Cinema mode.

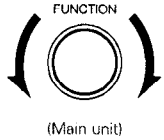
1 Press the MODE SELECT button and select TONE.
The mode switches as follows each time the MODE SELECT button is pressed:

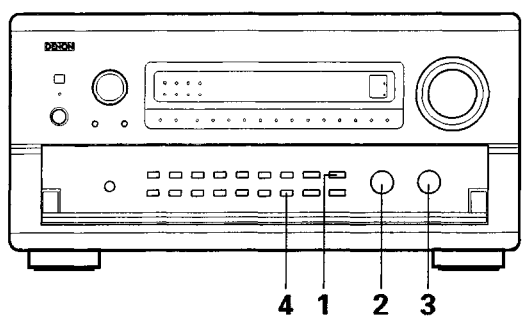


※ Only displayed when the TUNER input is selected.

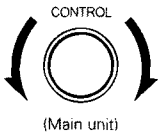


2 Select BASS/TREBLE with the FUNCTION knob.





3 Adjust as desired with the CONTROL knob.



(Main unit)

- To increase the bass or treble: Turn the control clockwise. (The bass or treble sound can be increased to up to +12 dB in steps of 2 dB.)
- To decrease the bass or treble: Turn the control counter clockwise. (The bass or treble sound can be decreased to up to –12 dB in steps of 2 dB.)

4 If you do not want the bass and treble to be adjusted, turn on the tone defeat mode.

※ The signals do not pass through the bass and treble adjustment circuits, providing higher quality sound.

(Main unit)

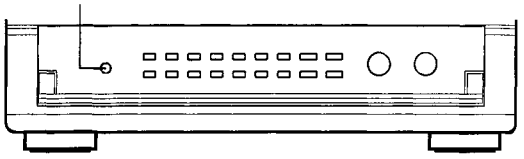
[2] Listening over headphones

Plug the headphones' plug into the jack.

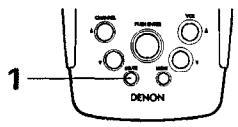
※ Connect the headphones to the PHONES jack. The pre-out output (including the speaker output) is automatically turned off when headphones are connected.

NOTE:

To prevent hearing loss, do not raise the volume level excessively when using headphones.



[3] Turning the sound off temporarily (muting)



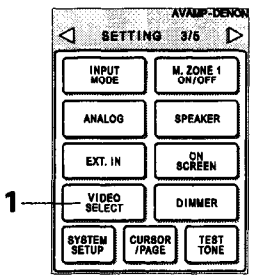
1 Use this to turn off the audio output temporarily.

Press the MUTE button.

※ Cancelling MUTING mode. Press the MUTE button again.

(Remote control unit)

[4] Combining the currently playing sound with the desired image



1 Simulcast playback

Use this switch to monitor a video source other than the audio source.

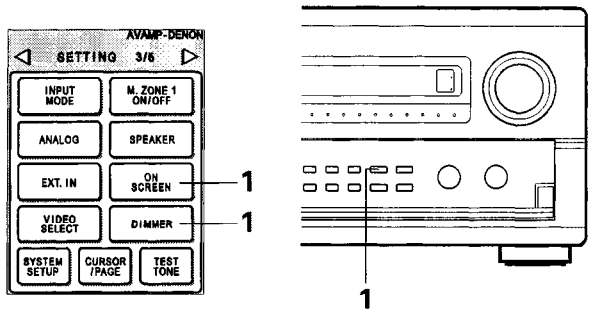
Press the remote control unit's VIDEO SELECT button until the desired image appears.

(Remote control unit)

※ Cancelling simulcast playback.

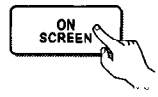
- Select "SOURCE" using the video select button.
- Switch the program source to the component connected to the video input.

[5] Checking the currently playing program source, etc.



1 On screen display

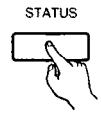
- Each time an operation is performed, a description of that operation appears on the display connected to the unit's VIDEO MONITOR OUT jack. Also, the unit's operating status can be checked during playback by pressing the remote control unit's ON SCREEN button. Such information as the position of the input selector and the surround parameter settings is output in sequence.



(Remote control unit)

Front panel display

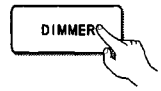
- Descriptions of the unit's operations are also displayed on the front panel display. In addition, the display can be switched to check the unit's operating status while playing a source by pressing the STATUS button.



(Main unit)

Using the dimmer function

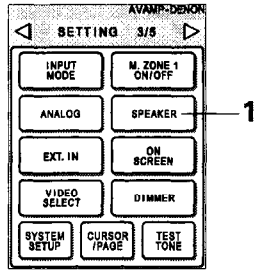
- Use this to change the brightness of the display. The display brightness changes in four steps (bright, medium, dim and off) by pressing the remote control unit's DIMMER button repeatedly.



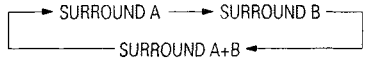
(Remote control unit)

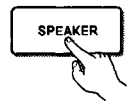
※ The brightness changes in 3 steps each time the button is pressed, and finally the display turns off.

[6] Switching the surround speakers



1 The surround speakers switch as shown below each time the SPEAKER button is pressed.





(Remote control unit)

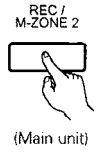
※ This operation is possible when the setting for using both surround speakers A and B is made at "Speaker Configuration" in the System Setup Menu.

Multi-source recording/playback

With the exception of the case in [2] below, only the signal connected to the analog input jacks are output from the REC OUT and multi-room output jacks.

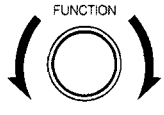
[1] Playing one source while recording another (REC OUT mode)

1 Press the REC/M-ZONE 2 button until "RECOUT ****" appears on the set's display.



(Main unit)

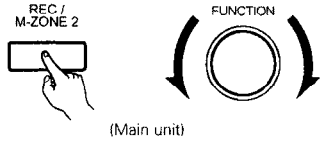
2 Select the source you want to record appears on the set's display.
- The indicator for the selected program source lights.



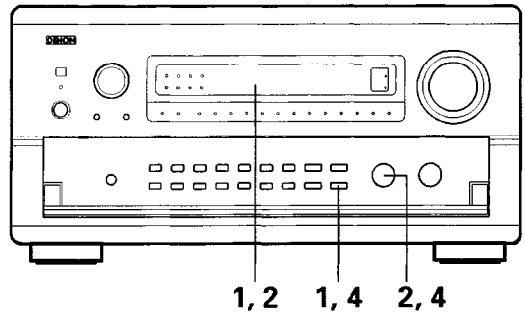
(Main unit)

3 Set the recording mode.
- For operating instructions, refer to the manual of the component on which you want to record.

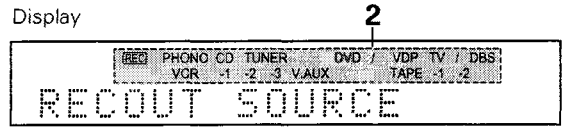
4 To cancel, press the REC/M-ZONE 2 button twice. Then select "M-ZONE2 SOURCE".



(Main unit)



Display

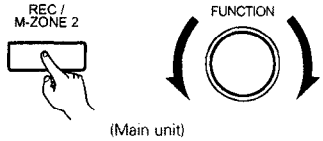


NOTES:
- Recording sources other than digital inputs selected in the REC OUT mode are also output to the multi source audio/video output jacks.
- Digital signals are not output from the MULTI ZONE 1 audio output jacks.

[2] Recording Dolby Digital and DTS multichannel sources

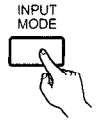
- With this set it is possible to record Dolby Digital and DTS multichannel signals converted into 2-channel analog signals.
- The recording signals are output to the MULTI ZONE-2 OUT, TAPE and VCR output terminals.
- Down-mixed analog signals converted into digital signals are output from the OPTICAL 5 and 6 digital output terminals at this time.

1 Press the REC/M-ZONE 2 button until "RECOUT ****" appears on the display. Then select "RECOUT SOURCE".



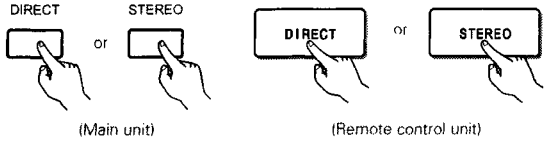
(Main unit)

2 Set the input mode according to the source to be played.

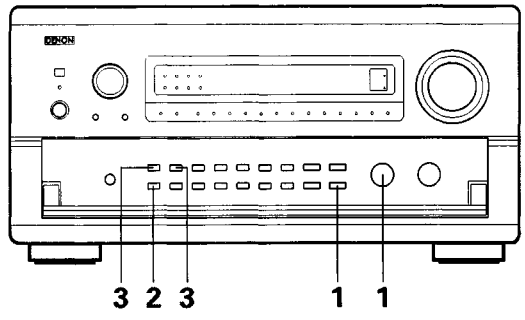


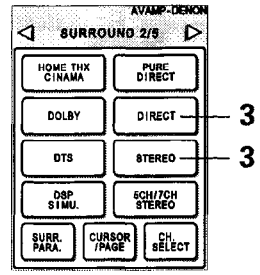
(Main unit)

3 Set the surround mode by pressing the DIRECT or STEREO button.
- The multichannel digital signals are down-mixed and output to the TAPE and VCR output terminals.



(Main unit) (Remote control unit)





4 Set the recording mode.

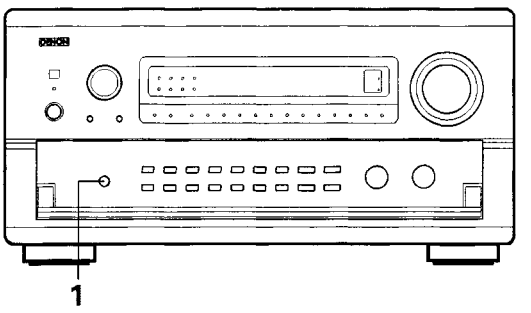
[3] Dolby Headphone recording

- When RECOUT mode is set to "source", with the AVR-5803 it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.

1 The Dolby Headphone play mode is set when headphones are connected to the PHONES jack during playback in the DOLBY/DTS surround mode.

2 When this is done, signals encoded in the Dolby Headphone mode are automatically output from the recording output terminals (analog and digital) and can be recorded.

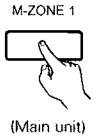
3 Select the parameters and set the desired mode, then record. (Refer to the [10] SURROUND "Dolby Headphone" page 60.)



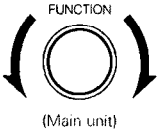
NOTE:
Do not disconnect the headphones during recording.

[4] Outputting a program source to an amplifier, etc., in a different room (M-ZONE 1 mode)

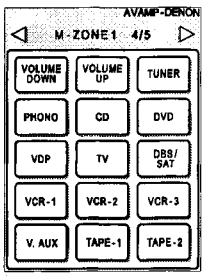
1 Press the M-ZONE 1 button.

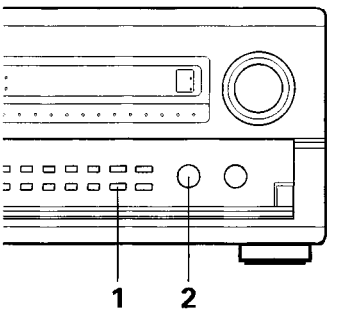


2 Select the source you want to output appears on the set's display.



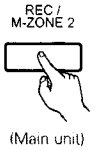
3 Start playing the source to be output.
- For operating instructions, refer to the manuals of the respective components.



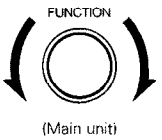


[5] Outputting a program source to an amplifier, etc., in a different room (M-ZONE 2)

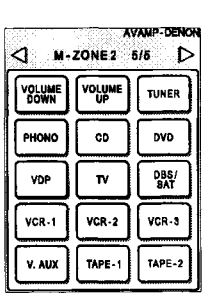
1 Press the REC/M-ZONE 2 button until "M-ZONE 2 ✱✱✱✱" appears on the set's display.

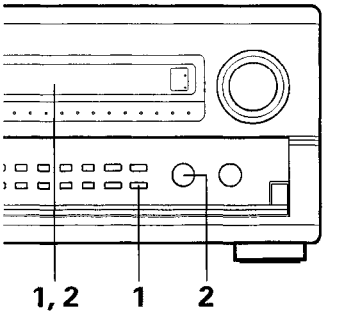


2 Select the source you want to record appears on the set's display.
- The MULTI indicator lights.
- The indicator for the selected program source light.
- When the AVR-5803 is in the REC OUT mode, the source cannot be output using the M-ZONE 2 buttons on the remote control unit.

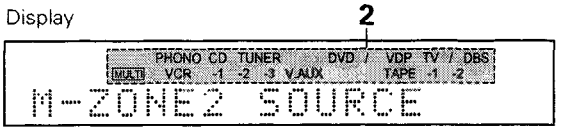


3 Start playing the source to be output.
- For operating instructions, refer to the manuals of the respective components.





Display

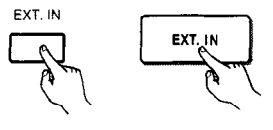


When "M-ZONE 2" is selected for the system setup's multi-zone setting, the source selected here is output from the M-ZONE 2 speaker terminals.
The volume can be adjusted and the input source can be selected using the VOLUME UP and VOLUME DOWN buttons on the remote control unit's "M-ZONE 2" page.

NOTES:
- The signals of the source selected in the M-ZONE-2 mode are also output from the TAPE and VCR recording output terminals.
- Digital signals are not output from the MULTI ZONE 1 audio output jacks.

Playback using the external input (EXT. IN) jacks

1 Set the external input (EXT. IN) mode.
Press the EXT. IN (on the EXT. IN button on the remote control unit) to switch the external input.

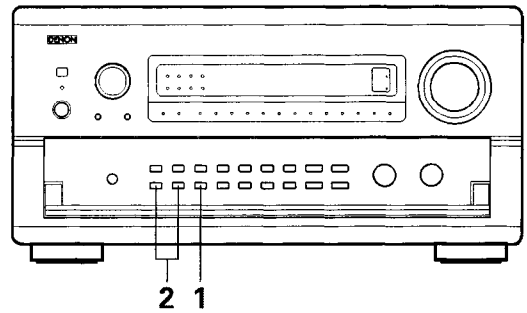


(Main unit) (Remote control unit)

The playback switches as shown below each time the button is pressed.

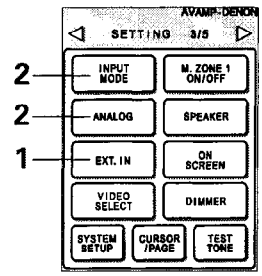
EXT. IN-1 ⟷ EXT. IN-2

Once this is selected, the input signals connected to the FRONT-L, FRONT-R, CENTER, SURR.-L (surround left), SURR.-R (surround right) SB-L (surround back left) and SB-R (surround back right) channels of the EXT. IN jacks are output directly to the front (left and right), center, surround (left and right) and surround back (left and right) speaker systems as well as the pre-out jacks.
In addition, the signal input to the SW (subwoofer) jack is output to the PRE OUT SW (subwoofer) jack.

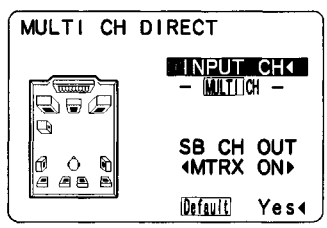


Playback using the external input jacks (EXT.IN-1 and EXT.IN-2)

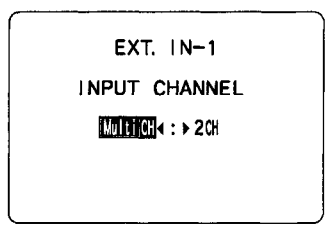
① When the "ANALOG" mode is selected at "EXT.IN SETUP" at system setup: The surround playback mode button does not function.
② When the "DSP" mode is selected at "EXT.IN SETUP" at system setup: The surround playback mode button functions.



Press the SURR.PARA button to display the surround parameters screen.
Select the parameter (jog stick up/down) and select the setting value (jog stick left/right).
Press the SURR.PARA button to complete.



- Input CH parameter
  2 CH:
  Select when the input source being played is a 2-channel source.
  MULTI CH:
  Select when the input source being played is a multi-channel source.



2 Cancelling the external input mode
To cancel the external input (EXT. IN) setting, press the INPUT MODE or ANALOG button to switch to the desired input mode.

(Main unit) (Remote control unit)

- When the input mode is set to EXT.IN (1 or 2), playback in the DIRECT, STEREO, DOLBY/DTS SURROUND, HOME THX CINEMA, WIDE SCREEN, 5CH/7CH STEREO and DSP SIMULATION modes is only possible when DSP MODE is selected for Ext.In Setup at System Setup.
- When the DIRECT button is pressed while the input channel parameter is set to "MULTI CH", the MULTI CH DIRECT mode is set. When the DOLBY/DTS SURROUND button is pressed, the MULTI CH IN mode is set. (See pages 64 and 65.)

NOTES:
- In play modes other than the external input mode, the signals connected to these jacks cannot be played. In addition, signals cannot be output from channels not connected to the input jacks.
- The external input mode can be set for any input source. To watch video while listening to sound, select the input source to which the video signal is connected, then set this mode.

■ Playback using the DENON Link connector

Digital transfer and multi-channel playback of DVD audio discs and other multi-channel sources is possible by connecting the AVR-5803 to a Denon DVD player equipped with a Denon Link connector using the connection cable included with the DVD player.
With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player's analog multi-channel output to the AVR-5803's EXT.IN-1 or EXT.IN-2 terminals for playback.
Also refer to your DVD player's operating instructions.

Playing audio sources (CDs and DVDs)

The AVR-5803 is equipped with three 2-channel playback modes exclusively for music.
Select the mode to suit your tastes.

1 **PURE DIRECT mode**

In this mode, the music is played with an extremely high level of sound quality.
When this mode is set, all the video-related circuits are turned off so that music signals can be reproduced with high quality. When an analog input (phono, etc.) is selected, the digital processing circuitry is also turned off to achieve analog sound with even higher purity.

(Main unit) (Remote control unit)

2 **DIRECT mode**

Use this mode to achieve good quality 2-channel sound while watching images. In this mode, the audio signals bypass such circuits as the tone circuit and are transmitted directly, resulting in good quality sound.

(Main unit) (Remote control unit)

3 **STEREO mode**

Use this mode to adjust the tone and achieve the desired sound while watching images.

(Main unit) (Remote control unit)

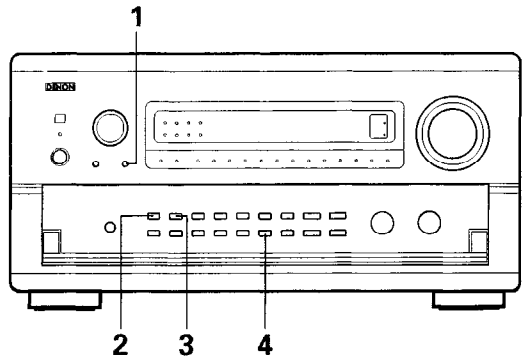
4 **VIDEO ON/OFF button**

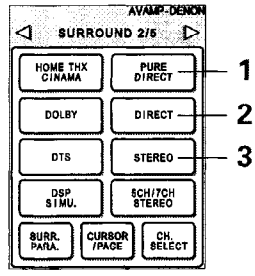
When no video signals of a DVD, etc., are connected to the AVR-5803 and the DVD, etc., are connected directly to a TV, etc., the unneeded video circuitry can be turned off by selecting the "VIDEO OFF" setting.

(Main unit)

NOTES:

- The system setup function cannot be used when the PURE DIRECT mode is set or the "VIDEO OFF" setting is selected. To use the system setup function, cancel the PURE DIRECT mode or select the "VIDEO ON" setting.
- The multi-room video output is not output in the PURE DIRECT and VIDEO OFF modes.
- The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.
- When the PURE DIRECT button is pressed while in the PURE DIRECT mode, the PURE DIRECT mode is cancelled and the DIRECT mode is set.





Multi-source and multi-zone playback

MULTI ROOM MUSIC ENTERTAINMENT SYSTEM

- When the outputs of the MULTI ZONE AUDIO OUT terminals are wired and connected to integrated amplifiers installed in other rooms, different sources can be played in rooms other than the main room in which this unit and the playback devices are installed. (Refer to ANOTHER ROOM on the diagram below.)
- When a sold separately room-to-room remote control unit (DENON RC-616, 617 or 618) is wired and connected between the main room and another room, the remote-controllable devices in the main room can be controlled from another room using the remote control unit.

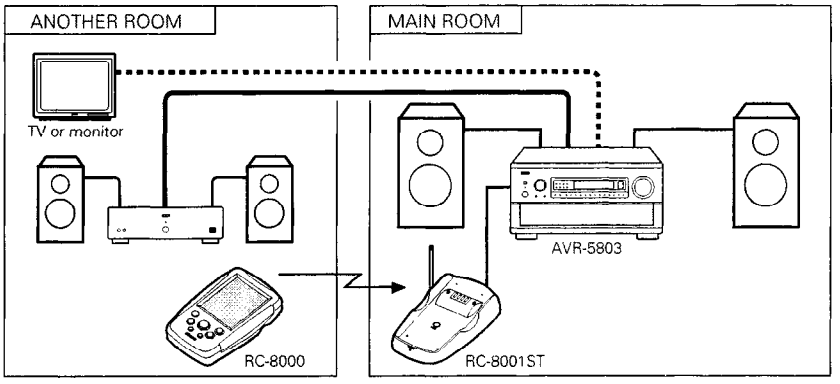
※ To control playback devices other than the ones above, either use that device's remote control unit or preset a separately sold programmable remote control unit.

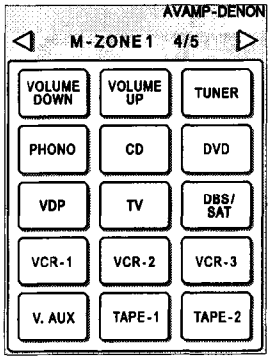
NOTES:
- For the AUDIO output, use high quality pin-plug cords and wire in such a way that there is no humming or noise.
- For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

MULTI ROOM MUSIC ENTERTAINMENT SYSTEM

[1] Multi-zone playback using the MULTI ZONE 1 terminals

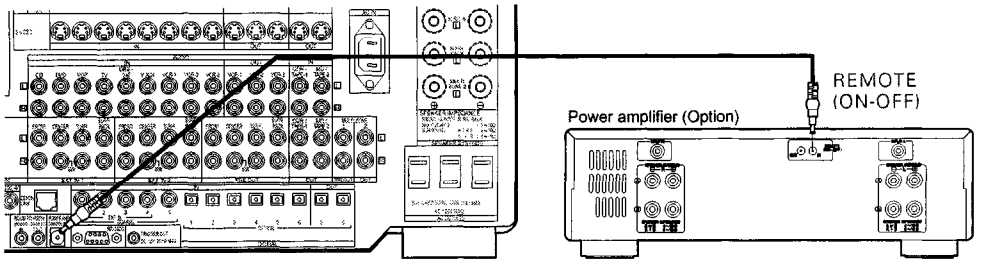
The AVR-5803 is equipped with audio pre-out terminals for which the volume is adjustable (M-ZONE 1) and composite video output terminals as the MULTI ZONE 1 output terminals.
A separately sold stereo power amplifier can be connected to enjoy multi-zone playback.
Also refer to the operating instructions of the RC-8001ST.

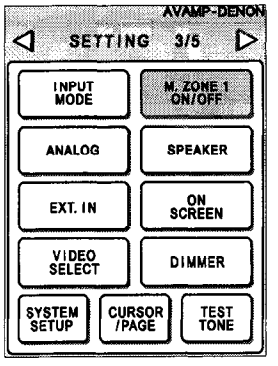




NOTE:
The multi-room video output is not output in the PURE DIRECT and VIDEO OFF modes.

When connected as shown on the diagram below using connection cords included with Denon power amplifiers, the power amplifier's power can be turned on and off using the "M-ZONE 1 ON/OFF" button on the remote control unit.



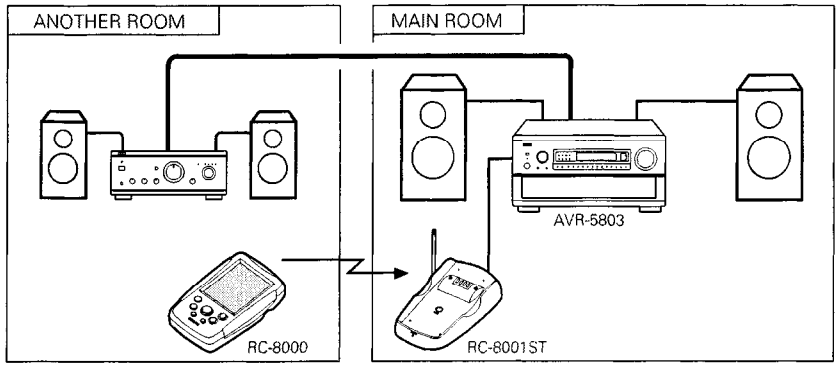


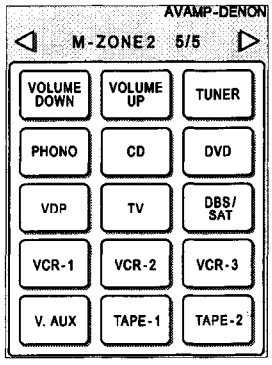
[2] Multi-zone playback using the MULTI ZONE 2 terminals

The AVR-5803 is equipped with audio pre output terminals with a fixed output level (M-ZONE 2) as the MULTI ZONE 2 output terminals. (These are not video outputs.)

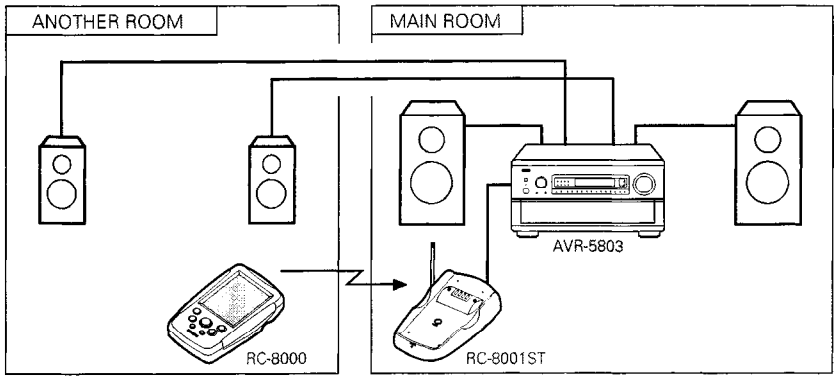
Settings can be made at the system setup menu so that the same source as the M-ZONE 2 pre-out terminals can be played from the speakers connected to the M-ZONE 2 speaker terminals.

■ **When using the PRE OUT terminals**





■ **When using the M-ZONE 2 (MULTI) speaker terminals**



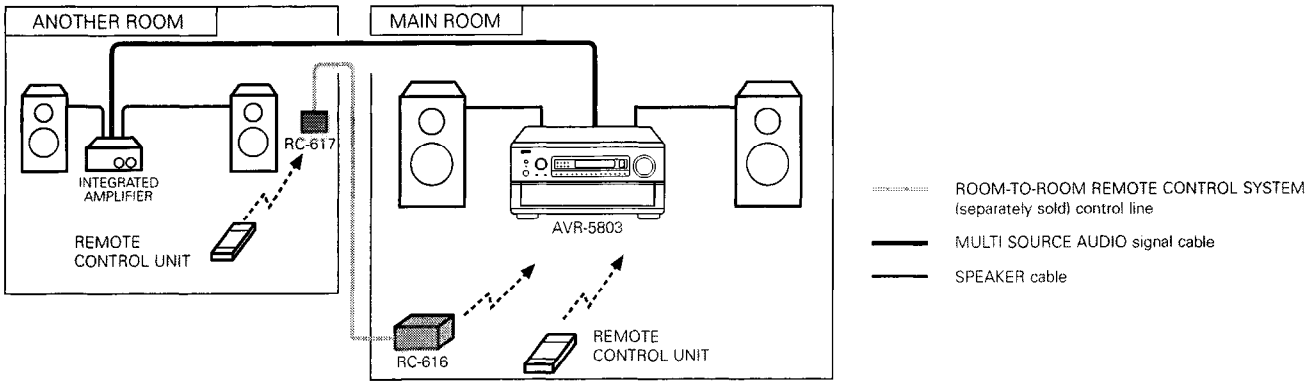
NOTE:

When the main unit is set to the recording output mode, the M-ZONE 2 remote control unit key cannot be operated. (See page 42.)

[3] When using a separately sold room-to-room remote control unit (RC-616, 617 or 618)

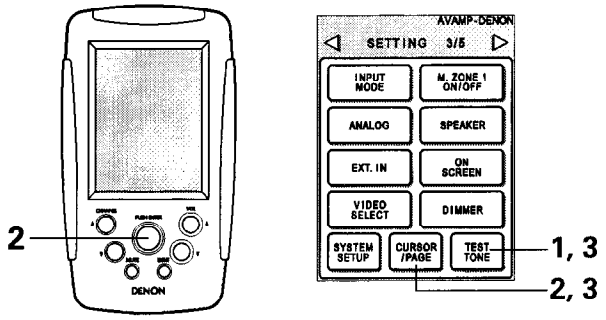
When the main room and another room are far apart and operation is not possible with RF transmission, operation is possible using a separately sold room-to-room remote control unit (RC-616, 617 or 618).

For details, refer to the operating instructions of the RC-616, 617 or 618.

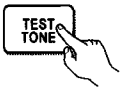


Before playing with the surround function

- Before playing with the surround function, be sure to use the test tones to adjust the playback level from the different speakers. This adjustment can be performed with the system setup (see page 24) or from the remote control unit, as described below.
- Adjusting with the remote control unit using the test tones is only possible in the "Auto" mode and only effective in the DOLBY SURROUND and HOME THX CINEMA modes. The adjusted levels for the different modes are automatically stored in the memory.

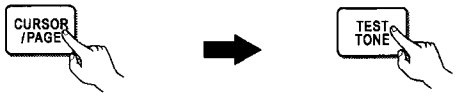


1 Press the TEST TONE button.



2 Test tones are output from the different speakers. Press the CURSOR/PAGE button to highlight the display, then use the jog stick to adjust the channel level.

3 After completing the adjustment, press the CURSOR/PAGE button again so that the display is no longer highlighted, then press the TEST TONE button to complete the operation.



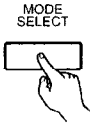
- After adjusting using the test tones, make the desired settings for each surround mode to be played, then use the procedure described below to adjust the levels of the various channels.

1

MAIN UNIT:
Press the MODE SELECT button and select "CH VOL".

The setting mode switches in the following order each time the button is pressed:

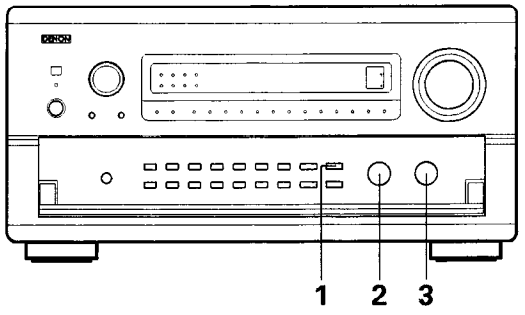
SURR. PARAMETER → TONE CONTROL → CH. VOL. → (TUNER PRESET) → SURR. PARAMETER



(Main unit)

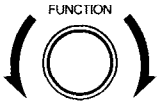
REMOTE CONTROL UNIT:
Press the CH. SELECT button on the "SURROUND 2/5" page. "CH VOL" is selected.

(Remote control unit)



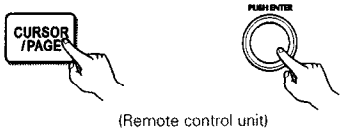
2

MAIN UNIT:
Use the FUNCTION knob to select the speaker whose level is to be adjusted.

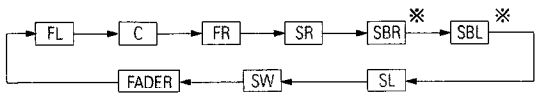


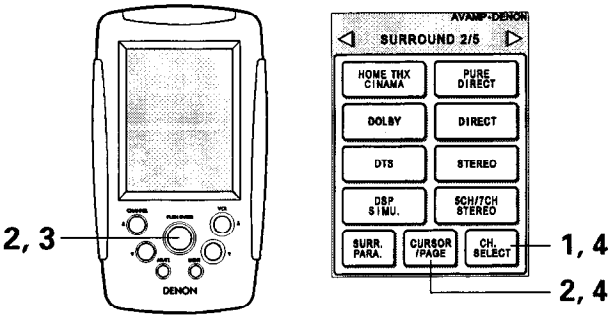
(Main unit)

REMOTE CONTROL UNIT:
Press the CURSOR/PAGE button on the "SURROUND 2/5" page to highlight the display, then press jog stick "ENTER". The channel (speaker) switches as shown on the diagram below each time it is pressed.

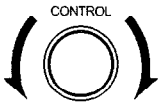


(Remote control unit)





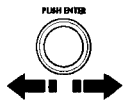
3 **MAIN UNIT:**
Turn the CONTROL knob to adjust the level of the selected speaker.



(Main unit)

REMOTE CONTROL UNIT:
Move jog stick "ENTER" back and forth to adjust the level of the selected speaker.

※ SW channel level can be turned off by decreasing one step from -12 dB.



(Remote control unit)

4 REMOTE CONTROL UNIT:
Once the channel level adjustment is completed, press the CURSOR/PAGE button again so that the display is no longer highlighted, then press the CH. SELECT button.

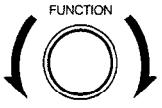
(Remote control unit)

※ When the surround back speaker setting is set to "1spkr" for "Speaker Configuration", this is set to "SB".

Fader function

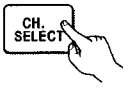
• This function makes it possible to lower the volume of the front channels (FL, C and FR) or the rear channels (SL, SR, SBL and SBR) together. Use it for example to adjust the balance of the sound from the different positions when playing multi-channel music sources.

1 **MAIN UNIT:**
Select "FADER" using the FUNCTION knob after selecting "CH. VOL" with the MODE SELECT button.

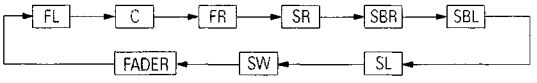


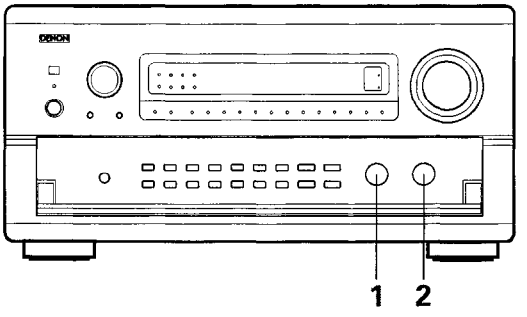
(Main unit)

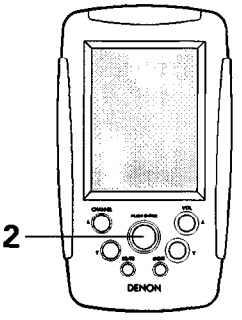
REMOTE CONTROL UNIT:
Select "FADER".

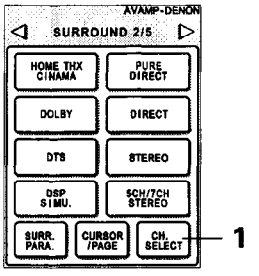


(Remote control unit)

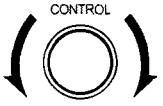






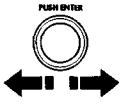


2 **MAIN UNIT:**
Turn the CONTROL knob clockwise to adjust the volume of the surround side collectively. Turn the CONTROL knob counterclockwise to adjust the volume of the front side collectively.



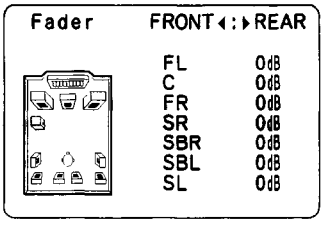
(Main unit)

REMOTE CONTROL UNIT:
Move jog stick "ENTER" to the top side to adjust the volume of the surround side collectively.
Move jog stick "ENTER" to the bottom side to adjust the volume of the front side collectively.



(Remote control unit)

※ The fader function does not affect the SW channel.

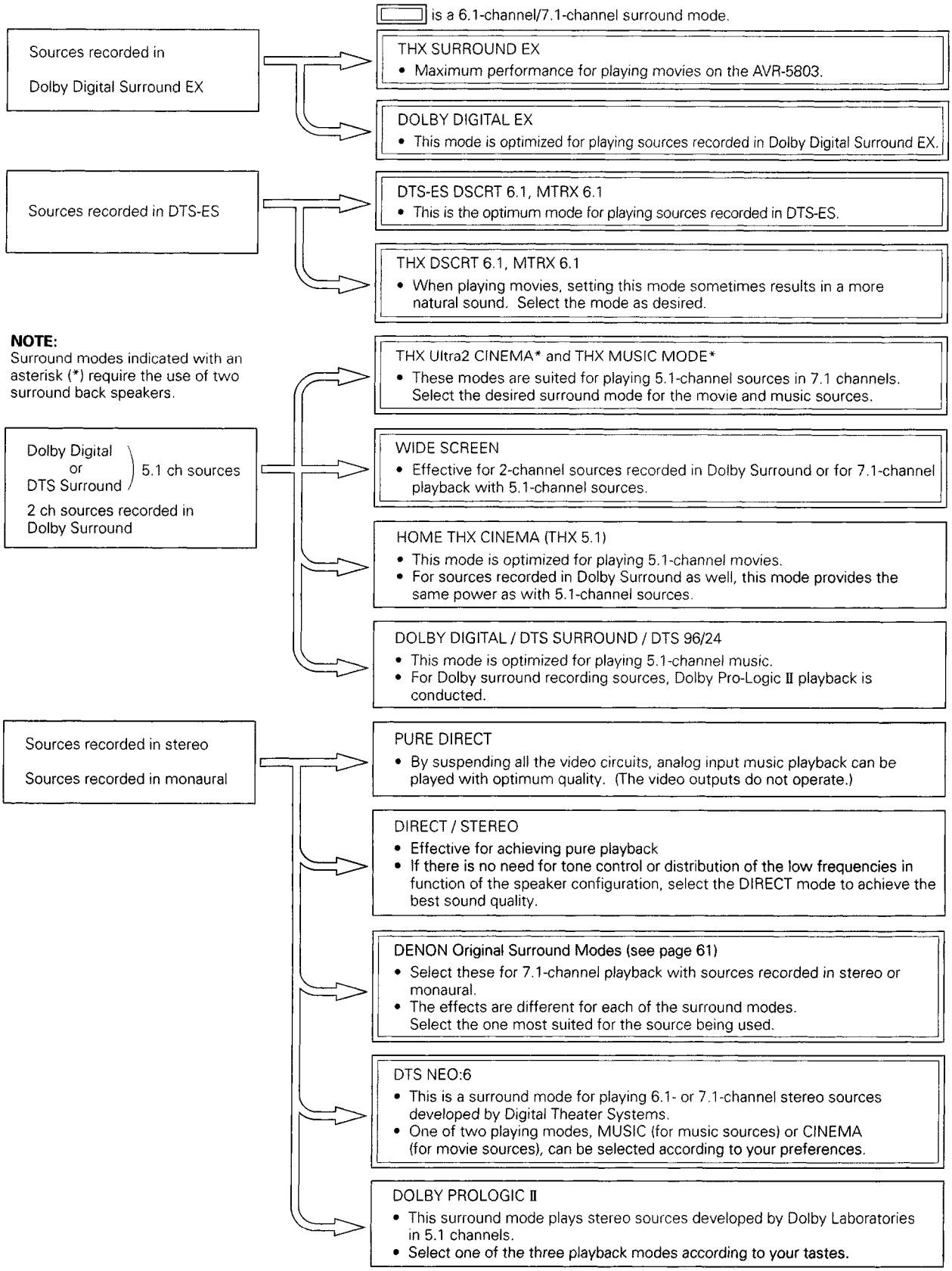


This is only displayed when setting the fader control.

※ The channel whose channel level is adjusted lowest can be faded to –12 dB using the fader function.
※ If the channel levels are adjusted separately after adjusting the fader, the fader adjustment values are cleared, so adjust the fader again.

Playing modes for different sources

The AVR-5803 is equipped with many surround modes. We recommend using the surround modes as described below in order to achieve the maximum effect for the specific signal source.


is a 6.1-channel/7.1-channel surround mode.
Sources recorded in
Dolby Digital Surround EX
THX SURROUND EX
• Maximum performance for playing movies on the AVR-5803.
DOLBY DIGITAL EX
• This mode is optimized for playing sources recorded in Dolby Digital Surround EX.
Sources recorded in DTS-ES
DTS-ES DSCRT 6.1, MTRX 6.1
• This is the optimum mode for playing sources recorded in DTS-ES.
THX DSCRT 6.1, MTRX 6.1
• When playing movies, setting this mode sometimes results in a more natural sound. Select the mode as desired.
NOTE:
Surround modes indicated with an asterisk (*) require the use of two surround back speakers.
Dolby Digital or DTS Surround
5.1 ch sources
2 ch sources recorded in Dolby Surround
THX Ultra2 CINEMA* and THX MUSIC MODE*
• These modes are suited for playing 5.1-channel sources in 7.1 channels. Select the desired surround mode for the movie and music sources.
WIDE SCREEN
• Effective for 2-channel sources recorded in Dolby Surround or for 7.1-channel playback with 5.1-channel sources.
HOME THX CINEMA (THX 5.1)
• This mode is optimized for playing 5.1-channel movies.
• For sources recorded in Dolby Surround as well, this mode provides the same power as with 5.1-channel sources.
DOLBY DIGITAL / DTS SURROUND / DTS 96/24
• This mode is optimized for playing 5.1-channel music.
• For Dolby surround recording sources, Dolby Pro-Logic II playback is conducted.
Sources recorded in stereo
Sources recorded in monaural
PURE DIRECT
• By suspending all the video circuits, analog input music playback can be played with optimum quality. (The video outputs do not operate.)
DIRECT / STEREO
• Effective for achieving pure playback
• If there is no need for tone control or distribution of the low frequencies in function of the speaker configuration, select the DIRECT mode to achieve the best sound quality.
DENON Original Surround Modes (see page 61)
• Select these for 7.1-channel playback with sources recorded in stereo or monaural.
• The effects are different for each of the surround modes. Select the one most suited for the source being used.
DTS NEO:6
• This is a surround mode for playing 6.1- or 7.1-channel stereo sources developed by Digital Theater Systems.
• One of two playing modes, MUSIC (for music sources) or CINEMA (for movie sources), can be selected according to your preferences.
DOLBY PROLOGIC II
• This surround mode plays stereo sources developed by Dolby Laboratories in 5.1 channels.
• Select one of the three playback modes according to your tastes.

• Though we recommend selecting the surround mode as described above, other surround modes can also be selected.

THX Surround EX / Home THX Cinema mode

When the HOME THX CINEMA button is pressed, the surround mode is set as follows according to the signal that is played:

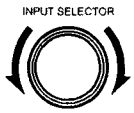
① THX Surround EX (THX Ultra2 Cinema)
② Home THX CINEMA
③ THX 5.1
④ THX DSCRT 6.1, THX MTRX 6.1

When the HOME THX CINEMA mode is set when a DVD is played, check the DVD player's digital output setting and change the setting to one for which Dolby Digital and DTS bit stream signals can be output ("bit stream", for example).

[1] Playing sources recorded in Dolby Surround in the Home THX Cinema surround mode

1

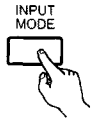
① Select the input source.



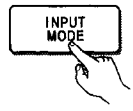
(Main unit)

(Remote control unit)

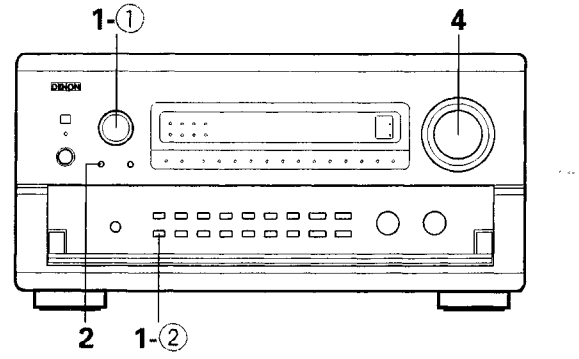
② Set the input mode to "AUTO".

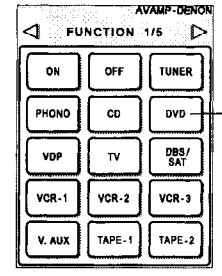


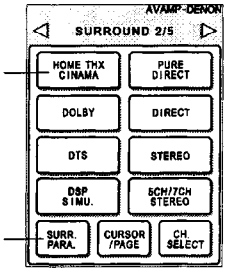
(Main unit)

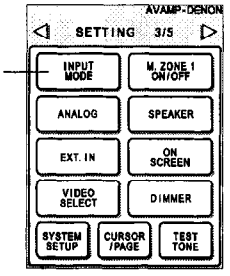


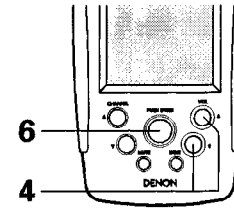
(Remote control unit)











2

Select the Home THX Cinema mode.

(Main unit)

(Remote control unit)

3

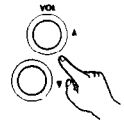
Play a program source with the DOLBY SURROUND mark.

- For operating instructions, refer to the manuals of the respective components.

4

Adjust volume.

(Main unit)

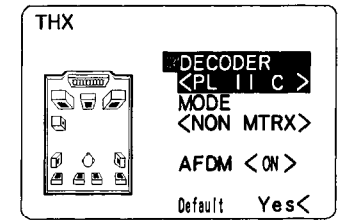


(Remote control unit)

5

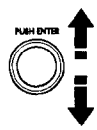
Display the surround parameter screen and set the parameters according to the source.

(Remote control unit)

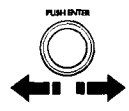


6

① Select the parameter. ② Select the setting.



(Remote control unit)



(Remote control unit)

7

Press the "SURR. PARA" button to complete the setting.

(Remote control unit)

Surround parameters ①

DECODER:

Select the decoder to be used when playing 2-channel sources in the Home THX Cinema mode.

PL II C .....The signals are decoded in the Dolby Pro Logic II Cinema mode before undergoing THX processing.
PL II E .....The signals are decoded in the Dolby Pro Logic emulation mode before undergoing THX processing.
NEO:6 C..The signals are decoded in the NEO:6 Cinema mode before undergoing THX processing.

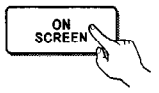
MODE/SB CH OUT:

Select the surround back channel playback method or mode.

NORMAL (ON) .....This is the recommended play mode for using the surround back channel when DTS NEO:6 is selected.
NORMAL (OFF).....This is the recommended play mode when Dolby Pro Logic II is selected. The surround back channel is not played.

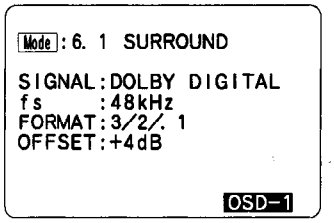
Checking the input signal

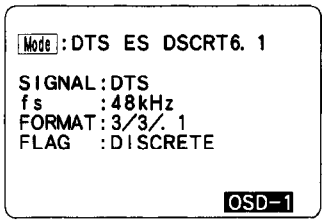
The input signal can be checked by pressing the remote control unit's ON SCREEN button. (See page 41.)



(Remote control unit)

SIGNAL: Displays the type of signal (DTS, DOLBY DIGITAL, PCM, etc.).
fs: Displays the input signal's sampling frequency.
FORMAT: Displays the input signal's number of channels.
"Number of front channels/Number of surround channels/LFE on/off"
"SURROUND" is displayed for 2-channel signal sources recorded in Dolby Surround.
OFFSET: Displays the dialog normalization offset value. (See page 55.)
FLAG: Displays the special identification signal recorded in the input signal. (See page 51.)
"MATRIX" is displayed when matrix processing is conducted on the surround back channel, "DISCRETE" is displayed when discrete processing is conducted.
Not displayed when no identification signal is recorded.





In addition, screen information is displayed in the following order when the ON SCREEN button is pressed repeatedly:

OSD-1 Input signal
OSD-2 Input/output
OSD-3 Auto surround mode
OSD-3 ~ 7 Tuner preset stations

NOTE:
OSD-3: This is displayed when the auto surround mode is set to "ON" and the input mode is set to "Auto".
It is not displayed when the input mode is set to "Analog" or "EXT. IN-1,-2".

[2] To play in the THX Surround EX/Home THX Cinema Surround mode for sources recorded in Dolby Digital or DTS

1 Select the program source.

Selecting a digital input source

Perform step 1 under "Dolby Digital mode and DTS Surround" (page 54).

2 Select the Home THX Cinema mode.

(Main unit) (Remote control unit)

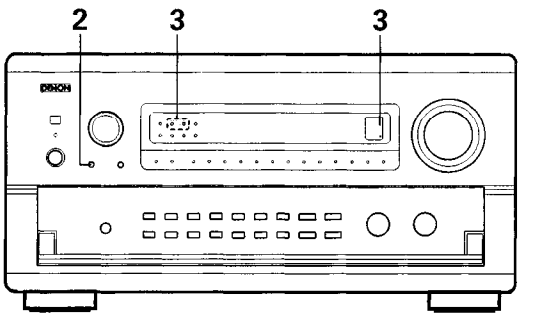
3 Play a program source with the DOLBY DIGITAL, dts mark.

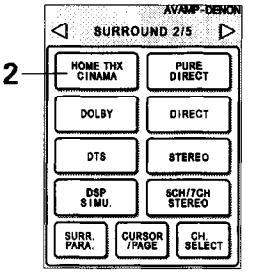
For operating instructions, refer to the manuals of the respective components.
The channel status information during playback of Dolby Digital and DTS sources can be checked using the "STATUS" button on the main unit.

SURROUND BACK CH. OUTPUT The surround back LED lights green when playing in the THX SURROUND EX mode.

DIGITAL The Dolby Digital indicator lights when playing Dolby Digital sources.

When playing DTS sources, the DTS indicator lights.





Surround parameters ②

For instructions on setting the surround parameters, see page 51.

MODE/SB CH OUT:

Select the surround back channel playback method or mode.

THX Surround EX ...Dolby Digital signals are played in the THX Surround EX mode.
Ultra2 Cinema .....The signals are played in the THX Ultra2 Cinema mode.
Music Mode .....The signals are played in the THX Music mode.
NON MTRX .....The same signals as those of the surround channels are output from the surround back channels.
MTRX ON .....The surround channel signals undergo digital matrix processing and are output from the surround back channels.
SB OFF (OFF).....No signal is played from the surround back channels.
ES MTRX.....When playing DTS signals, the surround back signals undergo digital matrix processing for playback.
ES DSCRT .....When a signal identifying the source as a discrete 6.1-channel source is included in the DTS signals, the surround back signals included in the source are played.

AFDM (Auto Flag Detect Mode):

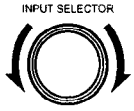
ON.....This function only works with software on which a special identification signal is recorded. This software is scheduled to go on sale in the future.
This is a function for automatically playing in the 6.1-channel mode using the surround back speakers if the software is recorded in THX Surround EX or DTS-ES or in the normal 5.1-channel mode without using the surround back speakers when the software is not recorded in THX Surround EX or DTS-ES.
OFF ....Set the "OFF" mode to perform 6.1-channel playback with conventional 5.1-channel sources or sources on which the identification signal described below is not recorded.

Dolby Digital mode (only with digital input) and DTS Surround (only with digital input)

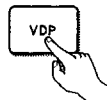
1 Select the input source.

Playback with digital input

① Select an input source set to digital (COAXIAL/OPTICAL) (see page 29).

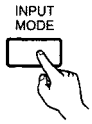


(Main unit)

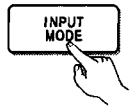


(Remote control unit)

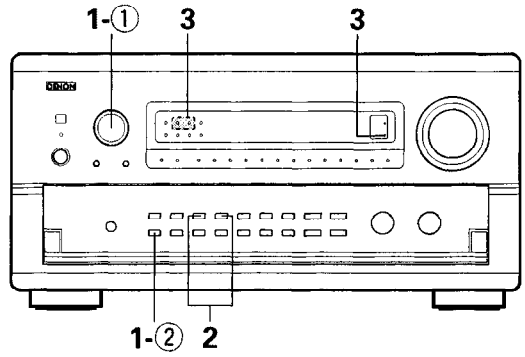
② Set the input mode to "AUTO".



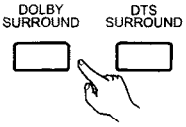
(Main unit)



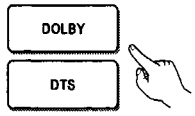
(Remote control unit)



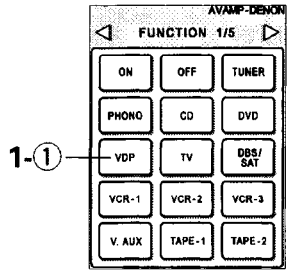
2 Select the Surround mode.

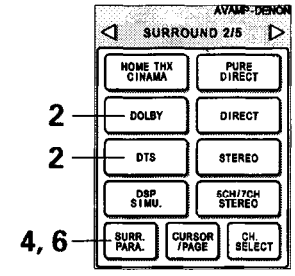


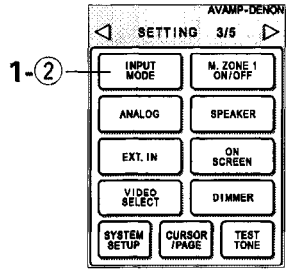
(Main unit)

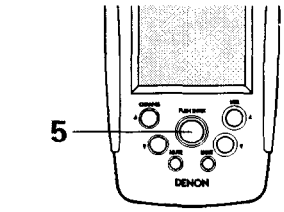


(Remote control unit)

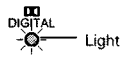




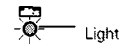




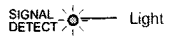
3 Play a program source with the DOLBY DIGITAL, dts mark.



- The Dolby Digital indicator lights when playing Dolby Digital sources.



- The DTS indicator lights when playing DTS sources.

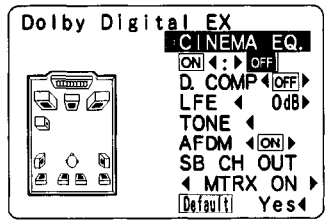


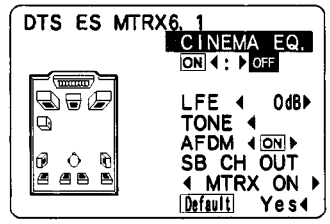
- The SIGNAL DETECT indicator lights when playing sources on which a special identification signal is recorded.

4

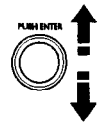
(Remote control unit)

Display the surround parameter menu.





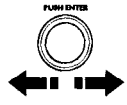
5



(Remote control unit)

① Select the various parameters.

② Adjust the parameter settings.



(Remote control unit)

6

(Remote control unit)

Press the "SURR. PARA" button to complete the setting.

NOTE:

- When "Default" is selected and the jog stick is moved to the left, "CINEMA EQ." and "D.COMP." are automatically turned off, "SB CH OUT" is reset, "CHANNEL LEVEL" and the tone is set to the default value.

Surround parameters ③

CINEMA EQ. (Cinema Equalizer):

The Cinema EQ function gently decreases the level of the extreme high frequencies, compensating for overly-bright sounding motion picture soundtracks. Select this function if the sound from the front speakers is too bright.
This function only works in the Dolby Pro Logic, Dolby Digital, DTS Surround and Wide Screen modes.

D.COMP. (Dynamic Range Compression):

Motion picture soundtracks have tremendous dynamic range (the contrast between very soft and very loud sounds). For listening late at night, or whenever the maximum sound level is lower than usual, the Dynamic Range Compression allows you to hear all of the sounds in the soundtrack (but with reduced dynamic range). (This only works when playing program sources recorded in Dolby Digital or DTS.) Select one of the four parameters ("OFF", "LOW", "MID" (middle) or "HI" (high)). Set to OFF for normal listening.
This parameter is displayed only when playing compatible sources in DTS mode.

LFE (Low frequency Effect):

This sets the level of the LFE (Low Frequency Effect) sounds included in the source when playing program sources recorded in Dolby Digital or DTS.
If the sound produced from the subwoofer sounds distorted due to the LFE signals when playing Dolby Digital or DTS sources when the peak limiter is turned off with the subwoofer peak limit level setting (system setup menu), adjust the level as necessary.
Program source and adjustment range

1. Dolby Digital:-10 dB to 0 dB
2. DTS Surround:-10 db to 0 dB

※ When DTS encoded movie software is played, it is recommended that the LFE LEVEL be set to 0 dB for correct DTS playback.

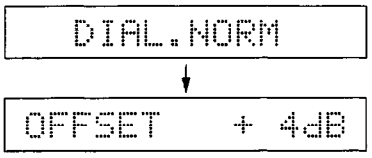
※ When DTS encoded music software is played, it is recommended that the LFE LEVEL be set to -10 dB for correct DTS playback.

TONE:

This adjusts the tone control. (See page 63.)

■ Dialogue Normalization

The dialogue normalization function is activated automatically when playing Dolby Digital program sources.
Dialogue normalization is a basic function of Dolby Digital which automatically normalizes the dialog level (standard level) of the signals which are recorded at different levels for different program sources, such as DVD, DTV and other future formats that will use Dolby Digital.
When this function is activated, the following message appears on the main unit's display:



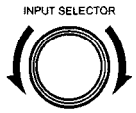
The number indicates the normalization level when the currently playing program is normalized to the standard level.

Adjusting the Audio Delay

When watching a DVD or other video source, the picture on the monitor may seem delayed with respect to the sound. In this case, adjust the audio delay to delay the sound and synchronize it with the picture.
The audio delay setting is stored separately for each input source.

1

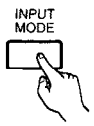
① Select the input source.



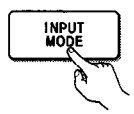
(Main unit)

(Remote control unit)

② Set the input mode to "AUTO".

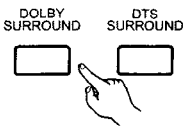


(Main unit)

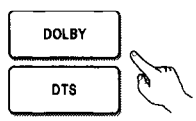


(Remote control unit)

③ Select the Dolby/DTS Surround.

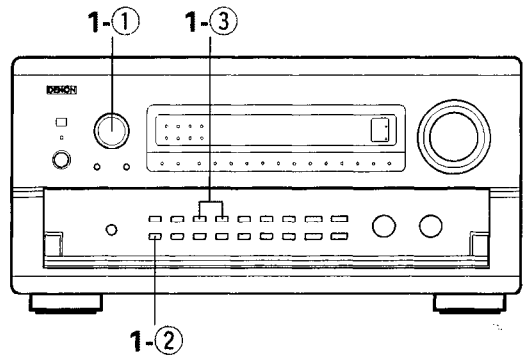


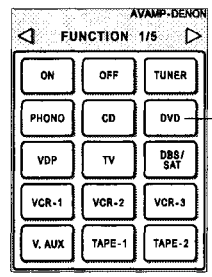
(Main unit)

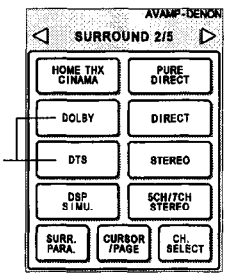


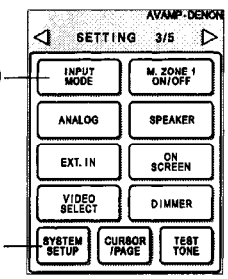
(Remote control unit)

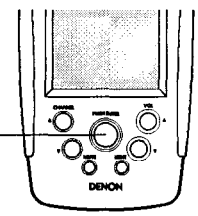
④ Play a program source (DVD, etc.).











2

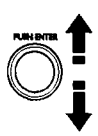
Press the SYSTEM SETUP button and display the System Setup Menu screen.

(Remote control unit)

```
System Setup Menu
☞Speaker Configuration
  Delay Time
  Channel Level
  THX Audio Setup
  Subwoofer Peak Limit Lev.
  Digital In Assignment
  Video Input Mode
```

3

Select "Audio Delay" on the System Setup Menu screen.



(Remote control unit)

```
System Setup Menu
☞Audio Delay
  Multi Zone Control
  Auto Surround Mode
  Ext. In Setup
  Digital Multi Ch In
  On Screen Display
  Auto Tuner Presets
  Setup Lock
```

4

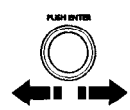
Press jog stick "ENTER" to switch to the Audio Delay adjustment screen.

(Remote control unit)

```
Input Source : DVD
Audio Delay ◂   0ms ▸
```

5

Set the delay time. (0 ms ~ 200 ms)



(Remote control unit)

```
Input Source : DVD
Audio Delay ◂ 200ms ▸
```

With a movie source, for example, adjust so that the movement of the actors' lips is synchronized with the sound.

6

Press jog stick "ENTER" to return to the System Setup Menu screen.

7

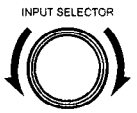
Press the SYSTEM SETUP button to complete the setting.

NOTE:
The audio delay setting does not apply when playing in the EXT. IN mode or in the analog input direct mode or stereo mode (only when the crossover frequency is set to "FIXED - THX" or front speaker is set to "Large").

Dolby Surround Pro Logic II mode

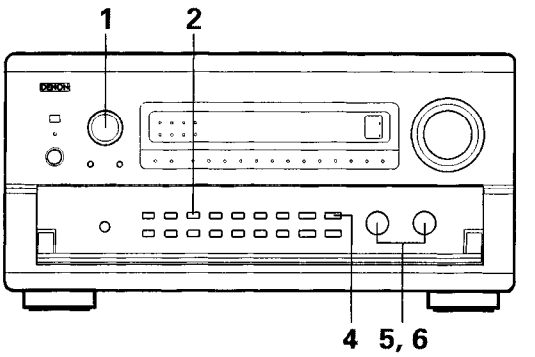
1 Select the function to which the component you want to play is connected.

EX:



(Main unit)

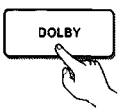
(Remote control unit)



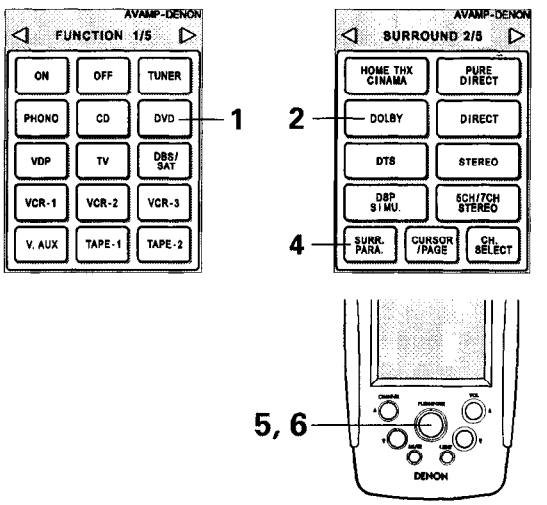
2 Select the Dolby Surround Pro Logic II mode.

Select the DOLBY PRO LOGIC II mode using the DOLBY SURROUND buttons.

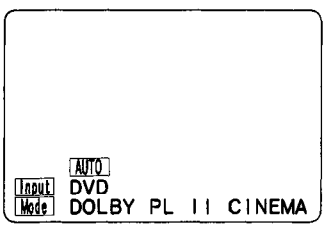
(Main unit)

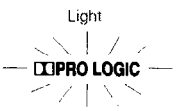


(Remote control unit)



- The Dolby Pro Logic indicator lights.



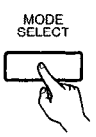


3 Play a program source with the DOLBY SURROUND mark.

- For operating instructions, refer to the manuals of the respective components.

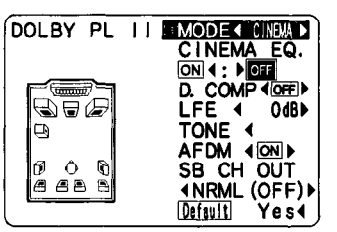
4 Select the surround parameter mode.

Press the MODE SELECT button and display "✳ SURR.PARAMETER".



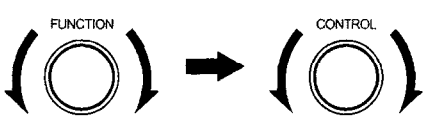
(Main unit)

(Remote control unit)

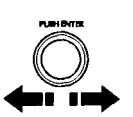


5 Select the optimum mode for the source.

Turn the FUNCTION knob and display "MODE CINEMA", then turn the CONTROL knob and select the mode.

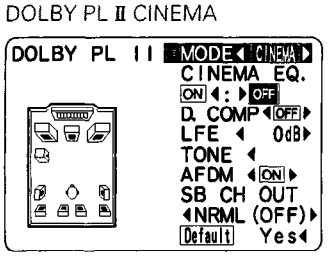


(Main unit)

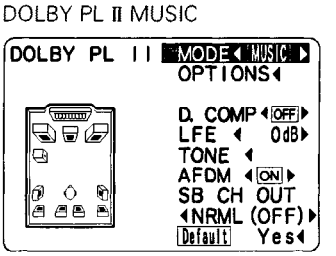


(Remote control unit)

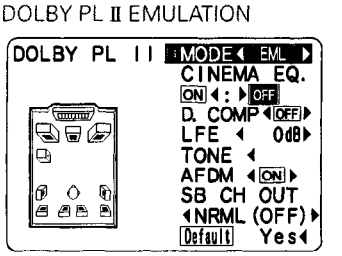
DOLBY PL II CINEMA



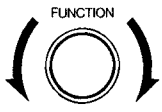
DOLBY PL II MUSIC



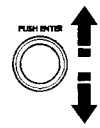
DOLBY PL II EMULATION



6 ① Select the various surround parameters.

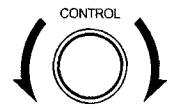


(Main unit)

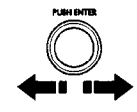


(Remote control unit)

② Adjust the parameters setting.



(Main unit)

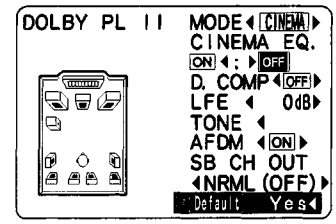


(Remote control unit)

- **DEFAULT setting**

This operation cannot be performed by operating the buttons on the main unit.
Select "Default Yes ◀", then parameters set to default setting.

(Remote control unit)



※ Stop pressing main unit's buttons once you have completed setting the surround parameters. After several seconds the normal display reappears and the settings you have made are automatically set.

NOTE:
- When making parameter settings, the display will return to the regular condition several seconds after the last button was pressed and the setting will be completed.

Surround parameters ④

Pro Logic II Mode:
The Cinema mode is for use with stereo television shows and all programs encoded Dolby Surround.
The Music mode is recommended as the standard mode for autosound music systems (no video), and is optional for A/V systems.
The Pro Logic Emulation mode offers the same robust surround processing as original Pro Logic in case the source contents is not of optimum quality.
Select one of the modes ("Cinema", "Music" or "EML").
It is possible to switch to the direct mode using the CINEMA/MUSIC button on the main unit's panel.

Panorama Control:
This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.
Select "OFF" or "ON".

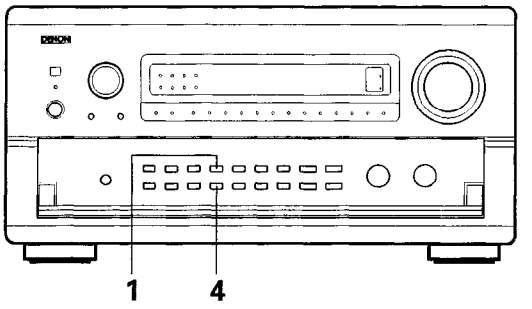
Dimension Control:
This control gradually adjust the soundfield either towards the front or towards the rear.
The control can be set in 7 steps from 0 to 6.

Center Width Control:
This control adjust the center image so it may be heard only from the center speaker; only from the left/right speakers as a phantom image; or from all three front speakers to varying degrees.
The control can be set in 8 steps from 0 to 7.

DTS NEO:6 MUSIC:
CENTER IMAGE (0.0 to 0.5: default 0.2)
The center image parameter for adjusting the expansion of the center channel in the DTS NEO:6 MUSIC mode has been added.

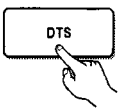
DTS Neo:6 mode

Surround playback can be conducted for the analog input and PCM digital input 2-channel signals.



1 Select the DTS NEO:6 mode.

(Main unit)

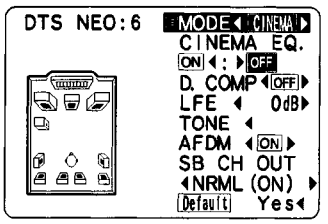


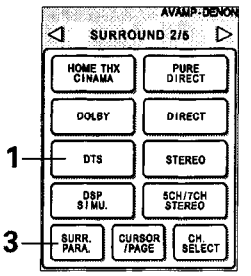
(Remote control unit)

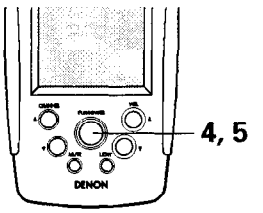
2 Play a program source.

3 Display the Surround Parameter Menu.

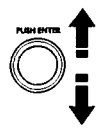
(Remote control unit)



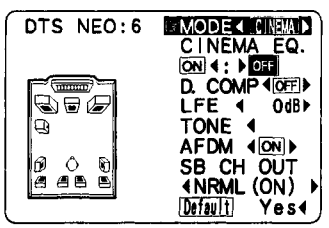




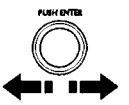
4 ① Select the various surround parameters.



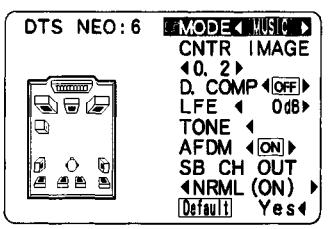
(Remote control unit)



② Adjust the parameters setting.



(Remote control unit)



- Select CINEMA or MUSIC. (CINEMA is optimum for movies, MUSIC is optimum for music software.)
  It is possible to switch to the direct mode using the CINEMA/MUSIC button on the main unit's panel.

(Main unit)

5 Enter the setting.

(Remote control unit)

NOTES:
- When "Default" is selected and the jog stick is moved to the left, "MODE" and "TONE" are automatically set to the default value.
- In addition, "CINEMA EQ." is set to OFF.

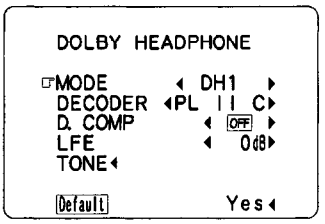
Dolby Headphone

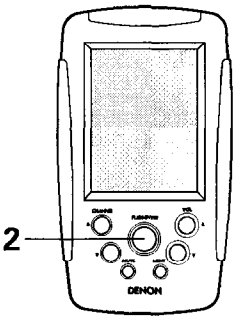
The Dolby Headphone mode is set when headphones are connected to the PHONES jack while in the DOLBY/DTS SURROUND mode.

1

(Remote control unit)

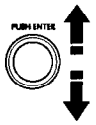
When the SURR. PARA. button is pressed, the parameter selection screen appears.





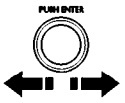
2

① Select the parameters.

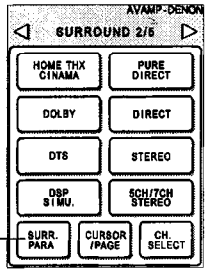


(Remote control unit)

② Select the settings.



(Remote control unit)



3

(Remote control unit)

Press the "SURR. PARA" button to complete the setting.

Parameters

MODE:

DH1 .....Reference room (small room with weak reverberations)
DH2 .....Live room (room with a bit stronger reverberations than DH1)
DH3 .....Large room (larger room than DH1, offers a sense of distance and sound diffusion effects)
BYPASS .....Stereo sound.

DECODER:

Select this when playing analog, PCM or other 2-channel sources.
The signals are converted into multichannel signals using the decoders shown below and played in the Dolby Headphone mode.
PL II C.....Dolby Pro Logic II Cinema mode
PL II M.....Dolby Pro Logic II Music mode
NEO:6 C.....DTS NEO:6 Cinema mode
NEO:6 M....DTS NEO:6 Music mode
OFF.....The signals are played in the Dolby Headphone mode as such (2 channels).

– Recording –

When RECOUT mode is set to "SOURCE", with this amplifier signals encoded in the Dolby Headphone mode can be output from the recording output terminals and recorded on another recorder. (see page 43)

11 DENON ORIGINAL SURROUND MODES

- The AVR-5803 is equipped with a built-in high performance DSP (digital signal processor) that uses digital processing to recreate sound fields artificially. Select one of the eight provided surround modes according to the program source you want to play and adjust the parameters to achieve a more real, powerful sound field.

Surround modes and their features

1	WIDE SCREEN	Select this to achieve an atmosphere like that of a movie theater with a large screen. In this mode, all signal sources are played in the 7.1-channel mode, including Dolby Pro Logic and Dolby Digital 5.1-channel sources. Effects simulating the multi surround speakers of movie theaters are added to the surround channels.
2	SUPER STADIUM	Select this when watching baseball or soccer programs to achieve a sound as if you were actually at the stadium. This mode provides the longest reverberation signals.
3	ROCK ARENA	Use this mode to achieve the feeling of a live concert in an arena with reflected sounds coming from all directions.
4	JAZZ CLUB	This mode creates the sound field of a live house with a low ceiling and hard walls. This mode gives jazz a very vivid realism.
5	CLASSIC CONCERT	Select this for the sound of a concert hall rich in reverberations.
6	MONO MOVIE (NOTE 1)	Select this when watching monaural movies for a greater sense of expansion
7	MATRIX	Select this to emphasize the sense of expansion for music sources recorded in stereo. Signals consisting of the difference component of the input signals (the component that provides the sense of expansion) processed for delay are output from the surround channel.
8	5CH/7CH STEREO	The front left channel signals are output to the surround and surround back signal left channels, the front right channel signals are output to the surround and surround back signal right channels, and the in-phase component of the left and right channels is output to the center channel. Use this mode to enjoy stereo sound.

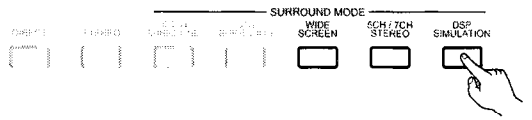
※ Depending on the program source being played, the effect may not be very noticeable.
In this case, try other surround modes, without worrying about their names, to create a sound field suited to your tastes.

NOTE 1: When playing sources recorded in monaural, the sound will be one-sided if signals are only input to one channel (left or right), so input signals to both channels. If you have a source component with only one audio output (monophonic camcorder, etc.) obtain a "Y" adaptor cable to split the mono output to two outputs, and connect to the L and R inputs.

Personal Memory Plus
This set is equipped with a personal memorize function that automatically memorizes the surround modes and input modes selected for the input different sources. When the input source is switched, the modes set for that source last time it was used are automatically recalled.
* The surround parameters, tone control settings and playback level balance for the different output channels are memorized for each surround mode.

DSP surround simulation

1 Select the surround mode for the input channel.

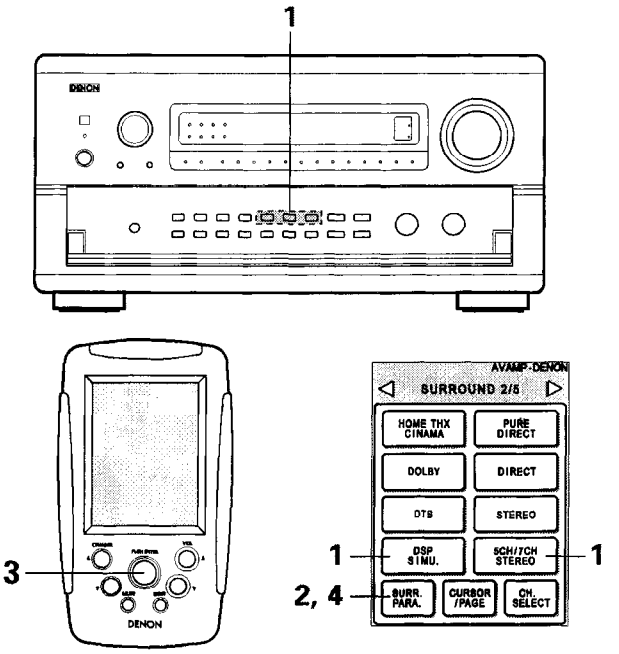


(Main unit)

The surround mode switches in the following order each time the DSP SIMULATION button is pressed:

WIDE SCREEN → SUPER STADIUM → ROCK ARENA → JAZZ CLUB → CLASSIC CONCERT → MONO MOVIE → MATRIX → WIDE SCREEN

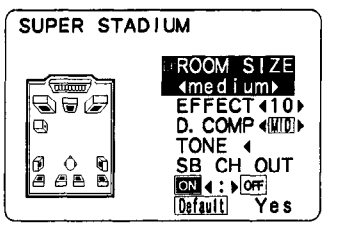
※ WIDE SCREEN is not displayed when the operation is performed with the button on the main unit.



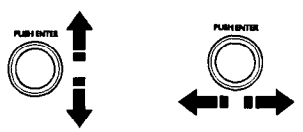
2

(Remote control unit)

Display the surround parameter screen on the monitor.
※ The screen for the selected surround mode appears.

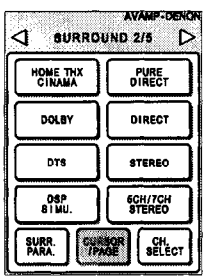


3



(Remote control unit)

Press the CURSOR/PAGE button to highlight the display, then use the jog stick to set the parameters.



4

(Remote control unit)

Press the CURSOR/PAGE button so that the display is no longer highlighted, then press the "SURR. PARA" button to complete the setting.

NOTES:

- When "Default" is selected and the jog stick is moved to the left, "CINEMA EQ." and "D. COMP." are automatically set to "OFF". In addition, "ROOM SIZE" is set to "medium", "EFFECT LEVEL" to "10" and "DELAY TIME" to "30ms".
- The "ROOM SIZE" expresses the expansion effect for the different surround modes in terms of the size of the sound field, not the actual size of the listening room.

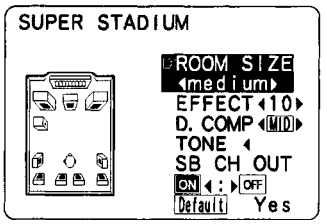
Tone control setting

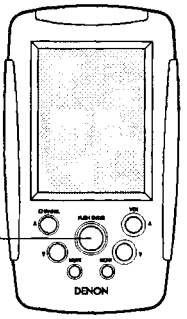
- Use the tone control setting to adjust the bass and treble as desired.

1

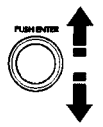
(Remote control unit)

Display the surround parameter screen on the monitor.
※ The screen for the selected surround mode appears.
"TONE" cannot be selected in the Direct or Home THX Cinema mode.



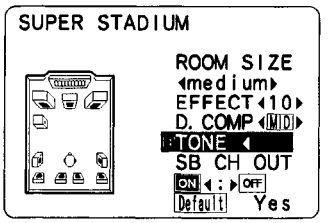


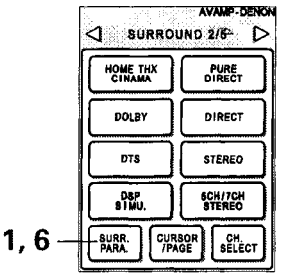
2



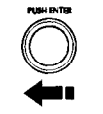
(Remote control unit)

Press the CURSOR/PAGE button to highlight the display, then use the jog stick to set the parameters.
Select "TONE".



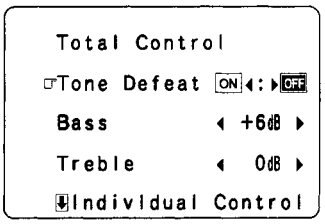


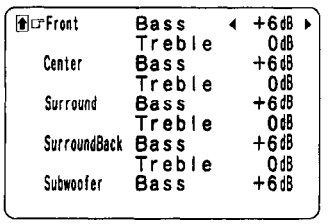
3



(Remote control unit)

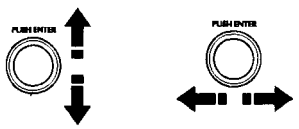
Switch to the Tone Control screen.





4

◎ To select Bass or Treble ◎ To set the level.



(Remote control unit)

※ If you do not want the tone to be adjusted, set "Tone Defeat" to "ON". (See page 41.)

(Remote control unit)

5

(Remote control unit)

Enter the setting.
The surround menu screen re-appears.

6

(Remote control unit)

Press the CURSOR/PAGE button so that the display is no longer highlighted, then press the "SURR. PARA" button to complete the setting.

Surround parameters (5)

EFFECT:
This parameter turns the effect signals with multi surround mode speaker effects on and off in the WIDE SCREEN mode. When this parameter is turned off, the SBL and SBR channel signals are equivalent to the SL and SR channels, respectively.

LEVEL:
This parameter sets the strength of the effect signals in the WIDE SCREEN mode. It can be set in 15 steps, from "1" to "15". Set this to a low level if the positioning or phase of the surround signals sounds unnatural.

SB CH OUT:
"ON" .....Playback is conducted using the surround back speaker.
"OFF".....Playback is conducted without using the surround back speaker.
NOTE: This operation can be performed directly using the "6.1/7.1 Surround" button on the main unit's panel.

ROOM SIZE:
This sets the size of the sound field.
There are five settings: "small", "med.s" (medium-small), "medium", "med.l" (medium-large) and "large". "small" recreates a small sound field, "large" a large sound field.

EFFECT LEVEL:
This sets the strength of the surround effect.
The level can be set in 15 steps from 1 to 15. Lower the level if the sound seems distorted.

DELAY TIME:
In the matrix mode only, the delay time can be set within the range of 0 to 300 ms.

TONE CONTROL:
This can be set individually for the separate surround modes other than Direct and Home THX Cinema.

■ Surround modes and parameters

Mode	Signals and adjustability in the different modes								
	Channel output					Parameter (default values are shown in parentheses)			
						When playing Dolby Digital and DTS signals			SB CH OUT (MODE)
	FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	SUB-WOOFER	D. COMP	LFE	AFDM	
PURE DIRECT, DIRECT	○	×	×	×	◎	○ (OFF)	○ (0dB)	⁄	×
MULTI CH DIRECT	○	◎	◎	◎	◎	⁄	×	×	○
STEREO	○	⁄	⁄	⁄	◎	○ (OFF)	○ (0dB)	\	×
EXTERNAL INPUT	○	◎	◎	◎	◎	\	×	×	⁄
MULTI CH IN	○	◎	◎	◎	◎	⁄	×	×	○
WIDE SCREEN	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	⁄	○
HOME THX CINEMA	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DOLBY PRO LOGIC II	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DOLBY DIGITAL	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DTS SURROUND	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DTS NEO:6	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
5/7CH STEREO	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
SUPER STADIUM	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	\	○
ROCK ARENA	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	⁄	○
JAZZ CLUB	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
CLASSIC CONCERT	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	⁄	○
MONO MOVIE	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
MATRIX	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	\	○

○ : Signal / Adjustable
× : No signal / Not adjustable
◎ : Turned on or off by speaker configuration setting

○ : Able
× : Unable

Mode	Signals and adjustability in the different modes									
	Parameter (default values are shown in parentheses)									
				SURROUND PARAMETER			PRO LOGIC II MUSIC MODE ONLY			NEO:6 MUSIC MODE ONLY
	TONE CONTROL	CINEMA EQ.	MODE	ROOM SIZE	EFFECT LEVEL	DELAY TIME	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE
PURE DIRECT, DIRECT	×	×	×	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	×	×	×	×
STEREO	○ (0dB)	×	×	×	×	×	×	×	×	×
EXTERNAL INPUT	○ (0dB)	×	×	×	×	×	×	×	×	×
MULTI CH IN	○ (0dB)	×	×	×	×	×	×	×	×	×
WIDE SCREEN	○ (0dB)	○ (OFF)	×	×	○ (ON, 10)	×	×	×	×	×
HOME THX CINEMA	×	×	○ (CINEMA)	×	×	×	×	×	×	×
DOLBY PRO LOGIC II	○ (0dB)	○ (OFF)	○ (CINEMA)	×	×	×	○ (OFF)	○ (3)	○ (3)	×
DOLBY DIGITAL	○ (0dB)	○ (OFF)	×	×	×	×	×	×	×	×
DTS SURROUND	○ (0dB)	○ (OFF)	×	×	×	×	×	×	×	×
DTS NEO:6	○ (0dB)	○ (OFF)	○ (CINEMA)	×	×	×	×	×	×	○ (0.2)
5/7CH STEREO	○ (0dB)	×	×	×	×	×	×	×	×	×
SUPER STADIUM	○ (Note 1)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
ROCK ARENA	○ (Note 2)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
JAZZ CLUB	○ (0dB)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
CLASSIC CONCERT	○ (0dB)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
MONO MOVIE	○ (0dB)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
MATRIX	○ (0dB)	×	×	×	×	○ (30msec)	×	×	×	×

(Note 1) BASS: +6 dB, TREBLE: 0 dB
(Note 2) BASS: +8 dB, TREBLE: 4 dB

○ : Adjustable
× : Not adjustable

■ Differences in surround mode names depending on the input signals

Surround Mode	Input signals						
			DTS			DOLBY DIGITAL	
	ANALOG	LINEAR PCM	DTS (5.1 ch)	DTS 96/24 (5.1 ch)	DTS (6.1 ch)	D. D. (2 ch)	D. D. (5.1 ch)
PURE DIRECT, DIRECT	○	○	○	○	○	○	○
STEREO	○	○	○	○	○	○	○
HOME THX CINEMA	THX	THX	✳THX MTRX6.1 THX Ultra2 Cinema THX MUSIC MODE THX5.1	✳THX MTRX6.1 THX Ultra2 Cinema THX MUSIC MODE THX5.1	◎ THX DSCRT6.1 THX MTRX6 1	THX	✳THX SURROUND EX THX Ultra2 Cinema THX MUSIC MODE THX5.1
DTS SURROUND	×	×	✳DTS ES MTRX DTS SURROUND	✳DTS ES MTRX DTS 96/24	◎ DTS ES DSCRT6.1 DTS MTRX6.1	×	×
DTS NEO:6	DTS NEO:6	DTS NEO:6	○	○	○	DTS NEO:6	○
DOLBY DIGITAL	×	×	×	×	×	×	✳DOLBY DIGITAL EX DOLBY DIGITAL
DOLBY PRO LOGIC II	DOLBY PRO LOGIC II	DOLBY PRO LOGIC II	×	×	×	DOLBY PRO LOGIC II	×
DSP SIMULATION	○	○	○	○	○	○	○

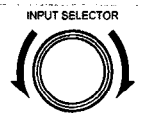
○ : Selectable
✳ : The surround mode name differs depending on the "MODE/SB CH OUT" surround parameter setting.
◎ : The surround mode name differs depending on the input signal.
× : Not selectable

12 LISTENING TO THE RADIO

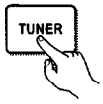
To operate the tuner by remote control, switch the remote control device to "TUNER".

Auto tuning

1 Set the input function to "TUNER".
Then switch the remote control device to "TUNER".

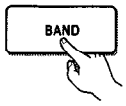


(Main unit)



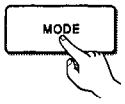
(Remote control unit)

2 Watching the display, press the BAND button to select the desired band (AM or FM).



(Remote control unit)

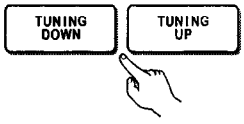
3 Press the MODE button to set the auto tuning mode.



"AUTO" appears on the display.

(Remote control unit)

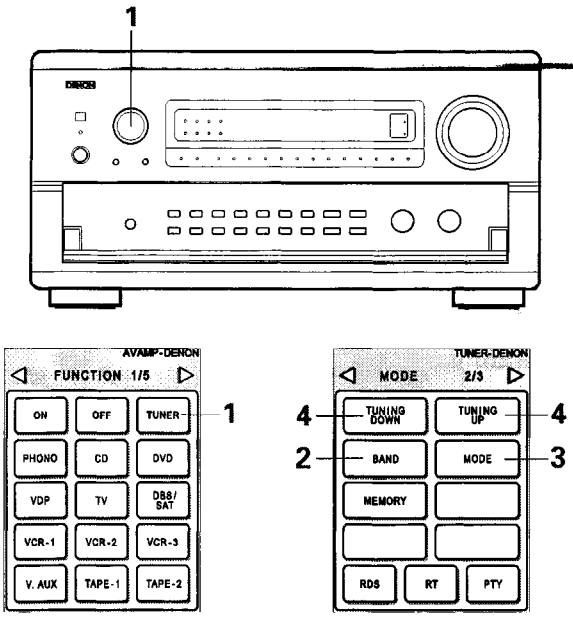
4 Press the TUNING UP or DOWN button.



Automatic searching begins, then stops when a station is tuned in.

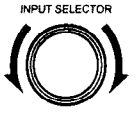
(Remote control unit)

If tuning does not stop at the desired station, use to the "Manual tuning" operation.

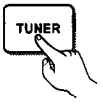


Manual tuning

1 Set the input function to "TUNER".
Then switch the remote control device to "TUNER".

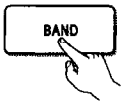


(Main unit)



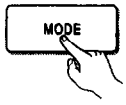
(Remote control unit)

2 Switch the remote control device to "TUNER".
Watching the display, press the BAND button to select the desired band (AM or FM).



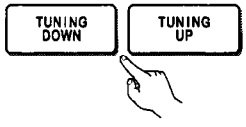
(Remote control unit)

3 Press the MODE button to set the manual tuning mode.
Check that the display's "AUTO" indicator turns off.



(Remote control unit)

4 Press the TUNING UP or DOWN button to tune in the desired station.
The frequency changes continuously when the button is held in.



(Remote control unit)

NOTES:

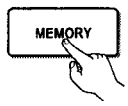
- When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off.
- When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.

Preset memory

To operate the tuner by remote control, switch the remote control device to "TUNER".

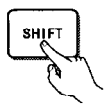
1 Use the "Auto tuning" or "Manual tuning" operation to tune in the station to be preset in the memory.

2 Press the MEMORY button.



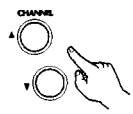
(Remote control unit)

3 **Remote control unit:**
Press the SHIFT button and select the desired memory block (A to E).

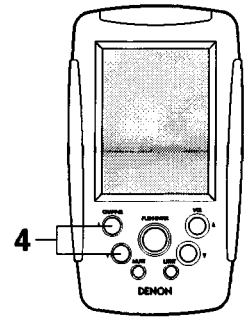


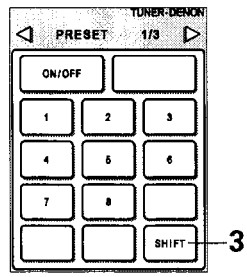
(Remote control unit)

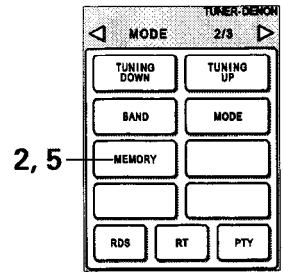
4 **Remote control unit:**
Press the PRESET UP or DOWN button to select the desired preset channel (1 to 8).



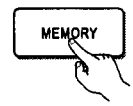
(Remote control unit)







5 Press the MEMORY button again to store the station in the preset memory.



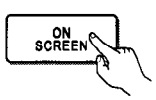
(Remote control unit)

To preset other channels, repeat steps 2 to 5.
A total of 40 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to E.

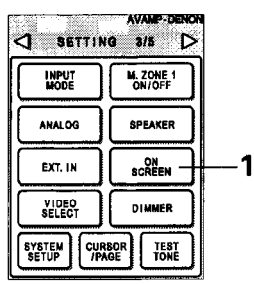
Checking the preset stations

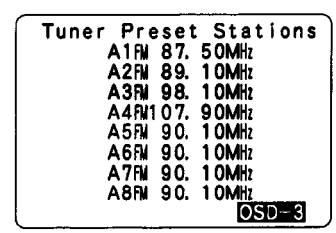
The preset broadcast stations can be checked on the on screen display.

1 Press the ON SCREEN button repeatedly until the "Tuner Preset Stations" screen appears on the on screen display.



(Remote control unit)

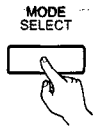




Recalling preset stations

1 **Main unit:**
Watching the display, press the MODE SELECT button until "TUNER PRESET" appears on the set's display.

Remote control unit:
Watching the display, press the SHIFT button to select the preset memory block.

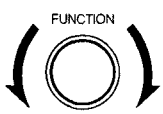


(Main unit)

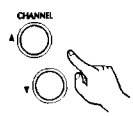
(Remote control unit)

2 **Main unit:**
Watching the display, select the desired preset channel.

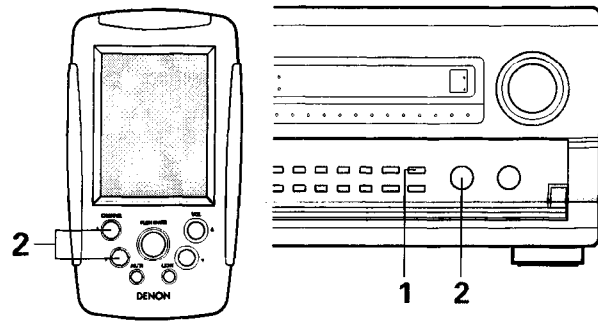
Remote control unit:
Watching the display, press the PRESET UP or DOWN button to select the desired preset channel.

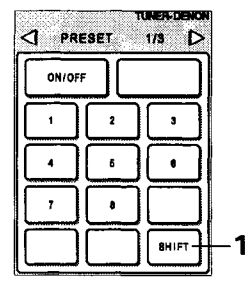


(Main unit)



(Remote control unit)





13 LAST FUNCTION MEMORY

- This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
  This function eliminates the need to perform complicated resettings when the power is switched on.
- The unit is also equipped with a back-up memory. This function provides approximately one week of memory storage when the main unit's power switch is off and with the power cord disconnected.

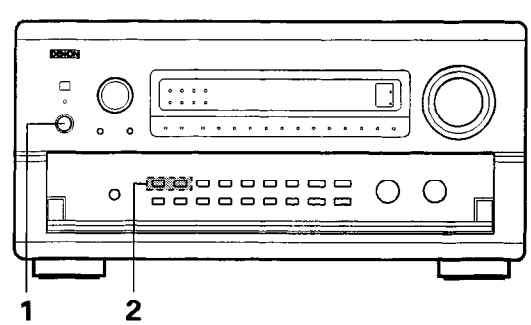
14 INITIALIZATION OF THE MICROPROCESSOR

When the indication of the display is not normal or when the operation of the unit does not shows the reasonable result, the initialization of the microprocessor is required by the following procedure.

1 Switch off the unit and remove the AC cord from the wall outlet.

2 Press and hold the DIRECT buttons and STEREO buttons, and at the same time, plug in the AC cord.

3 Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons and the microprocessor will be initialized.



NOTES:
- If step 3 does not work, start over from step 1.
- If the microprocessor has been reset, all the button settings are reset to the default values (the values set upon shipment from the factory).

15 TROUBLESHOOTING

If a problem should arise,first check the following.

1. **Are the connections correct ?**
2. **Have you operated the receiver according to the Operating Instructions ?**
3. **Are the speakers, turntable and other components operating property ?**

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
DISPLAY not lit and sound not produced when power switch set to on.	• Power cord not plugged in securely.	• Check the insertion of the power cord plug.	7
DISPLAY lit but sound not produced.	• Speaker cords not securely connected. • Input source selector button position is not appropriate. • Volume control set to minimum. • MUTING is on. • No digital signal is being input. • Speaker A or B button is set to "OFF".	• Connect securely. • Switch to the proper position. • Turn volume up to suitable level. • Switch off MUTING. • Properly select a digital signal input source. • Set the button for the connected speaker terminals to "ON".	13, 14 39 40 41 29 20
Nothing is displayed on monitor.	• AVR-5803's video output jacks and monitor's input jacks are not properly connected. • Monitor TV's input setting is wrong. • Connections of the various component's video signals are not unified.	• Check that the connections are correct. • Set the TV's input selector to the jacks to which video signals are connected. • Unify to composite or S jack.	8 ~ 10 8 ~ 10 8 ~ 10
No dts sound is produced.	• DVD player's audio output setting is not set to bit stream. • DVD player is not dts-compatible. • AVR-5803's input setting is set to analog.	• Make the DVD player's initial settings. • Use a dts-compatible player. • Set to AUTO or dts.	— — 39
Ultra2 Cinema/THX MusicMode cannot be set.	• Surround back speaker set to 1.	• Connect two surround back speakers.	18, 20, 27
Copying from DVD to VCR is not possible.	• Mode video software contains copy prohibit signals.	• Copying is not possible.	—
No sound is produced from subwoofer.	• Subwoofer's power is not on. • Subwoofer's initial setting is set to "NO". • Subwoofer's output is not connected.	• Turn on the power. • Set the setting to "YES". • Connect properly.	— 20 14
No test tones are produced.	• Surround mode is set to a mode other than Dolby Surround.	• Set to Dolby Surround.	—
No sound is produced from surround speakers.	• Surround mode is set to "STEREO".	• Set to a mode other than "STEREO".	—
Dolby Digital is not possible with LDs.	• Not connected to Dolby Digital jacks.	• Connect the LD player's Dolby Digital RF output to the AVR-5803's Dolby Digital RF input jacks.	8
This unit does not operate properly when remote control unit is used.	• Batteries dead. • Remote control unit too far from this unit. • Obstacle between this unit and remote control unit. • Different button is being pressed. • ⊕ and ⊖ ends of battery inserted in reverse.	• Replace with new batteries. • Move closer. • Remove obstacle. • Press the proper button. • Insert batteries properly.	37 37 37 — 37

16 ADDITIONAL INFORMATION

Optimum surround sound for different sources

There are currently various types of multi-channel signals (signals or formats with more than two channels).

■ Types of multi-channel signals

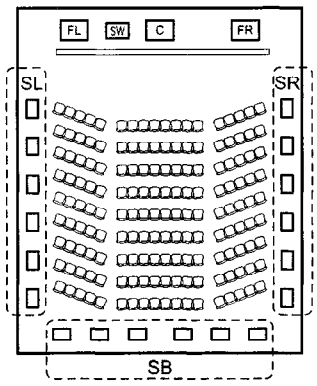
Dolby Digital (EX), Dolby Pro Logic, DTS (ES), high definition 3-1 signals (Japan MUSE Hi-Vision audio), DVD-Audio, SACD (Super Audio CD), MPEG multi-channel audio, etc.

"Source" here does not refer to the type of signal (format) but the recorded content. Sources can be divided into two major categories.

2 Types of sources

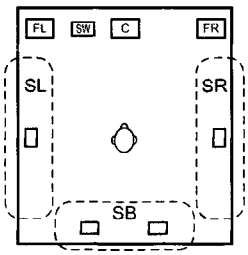
- **Movie audio** Signals created to be played in movie theaters. In general sound is recorded to be played in movie theaters equipped with multiple surround speakers, regardless of the format (Dolby Digital, DTS, etc.).

Movie theater sound field



Multiple surround speakers

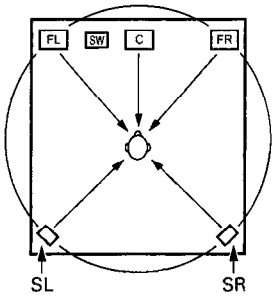
Listening room sound field



In this case it is important to achieve the same sense of expansion as in a movie theater with the surround channels. To do so, in some cases the number of surround speakers is increased (to four or eight) or speakers with bipolar or dipolar properties are used.

SL: Surround L channel
SR: Surround R channel
SB: Surround B (back) channel

- **Other types of audio** These signals are designed to recreate a 360° sound field using three to five speakers.



In this case the speakers should surround the listener from all sides to create a uniform sound field from 360°. Ideally the surround speakers should function as "point" sound sources in the same way as the front speakers.

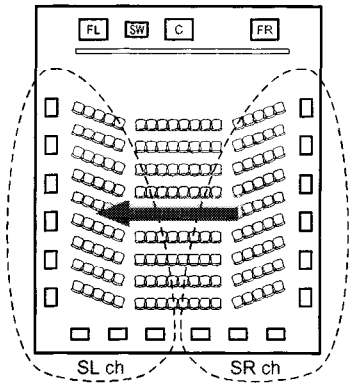
These two types of sources thus have different properties, and different speaker settings, particularly for the surround speakers, are required in order to achieve the ideal sound.

The AVR-5803's surround speaker selection function makes it possible to change the settings according to the combination of surround speakers being used and the surrounding environment in order to achieve the ideal surround sound for all sources. This means that you can connect a pair of bipolar or dipolar surround speakers (mounted on either side of the prime listening position), as well as a separate pair of direct radiating (monopolar) speakers placed at the rear corners of the listening room.

Surround back speakers

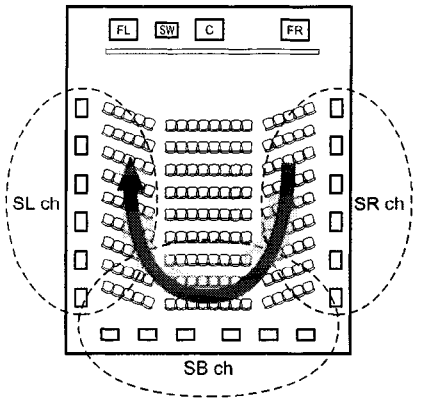
The THX Surround EX format adds new "Surround Back" (SB) channels to the conventional 5.1-channel system. This makes it easy to achieve sound positioned directly behind the listener, something that was previously difficult with sources designed for conventional multi surround speakers. In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems



Movement of acoustic image from SR to SL

Change of positioning and acoustic image with THX Surround EX system



Movement of acoustic image from SR to SB to SL

Speaker(s) for one or two channels are required in order to achieve a THX Surround EX system with the AVR-5803. Adding these, however, allows you to achieve stronger surround effects not only with sources recorded in THX Surround EX, but also with conventional 2- to 5.1-channel sources. The WIDE SCREEN mode is a mode for achieving surround sound with up to 7.1 channels using surround back speakers, for sources recorded in conventional Dolby Surround as well as Dolby Digital 5.1-channel and DTS Surround 5.1-channel sources. Furthermore, all the Denon original surround modes (see page 61) are compatible with 7.1-channel playback, so you can enjoy 7.1-channel sound with any signal source.

■ Number of surround back speakers

With THX Surround EX, the surround back channel consists of one channel of playback signals, but we recommend using two speakers. When using dipolar speakers in particular, it is essential to use two speakers.

Using two speakers results in a smoother blend with the sound of the surround channels and better sound positioning of the surround back channel when listening from a position other than the center.

■ Placement of the surround left and right channels when using surround back speakers

Using surround back speakers greatly improves the positioning of the sound at the rear. Because of this, the surround left and right channels play an important role in achieving a smooth transition of the acoustic image from the front to the back. As shown on the diagram above, in a movie theater the surround signals are also produced from diagonally in front of the listeners, creating an acoustic image as if the sound were floating in space.

To achieve these effects, we recommend placing the speakers for the surround left and right channels slightly more towards the front than with conventional surround systems. Doing so sometimes increases the surround effect when playing conventional 5.1-channel sources in the THX Surround EX mode. Check the surround effects of the various modes before selecting the surround mode.

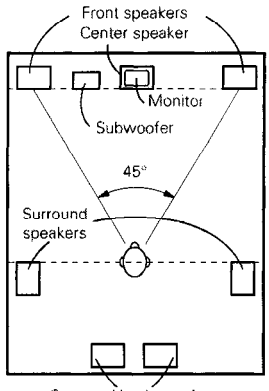
Speaker setting examples

Here we describe a number of speaker settings for different purposes. Use these examples as guides to set up your system according to the type of speakers used and the main usage purpose.

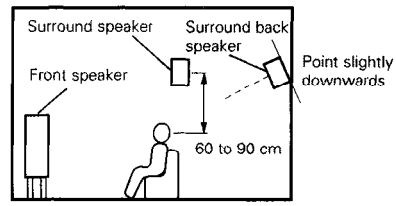
1. For THX Surround EX systems (using surround back speakers)

(1) Basic setting for primarily watching movies

This is recommended when mainly playing movies and using regular single way or 2-way speakers for the surround speakers.



As seen from above



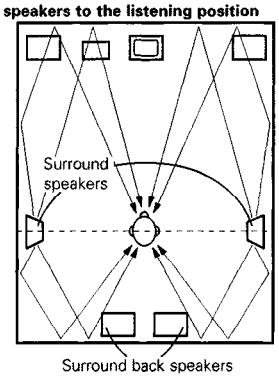
As seen from the side

- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the owner's manual for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.
- When using two surround back speakers, set them at the back facing front and with both speakers at the same distance from the listening point. When using one surround back speaker, place it at the rear center facing the front at a slightly higher position (0 to 20 cm) than the surround speakers.
- We recommend installing the surround back speaker(s) at a slightly downward facing angle. This effectively prevents the surround back channel signals from reflecting off the monitor or screen at the front center, resulting in interference and making the sense of movement from the front to the back less sharp.
- Connect the surround speakers to the surround speaker A jacks on the AVR-5803 and set all settings on the setup menu to "A". (This is the factory default setting. For details, see page 17.)

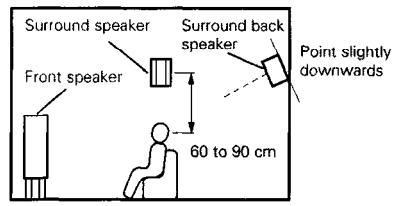
(2) Setting for primarily watching movies using diffusion type speakers for the surround speakers

For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar (THX) types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

Path of the surround sound from the speakers to the listening position



As seen from above

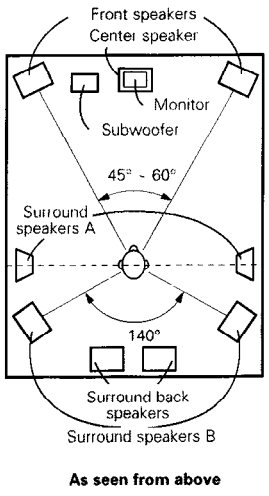


As seen from the side

- Set the front speakers, center speaker and subwoofer in the same positions as in example (1).
- It is best to place the surround speakers directly at the side or slightly to the front of the viewing position, and 60 to 90 cm above the ears.
- Same as surround back speaker installation method (1).
- Connect the surround speakers to the surround speaker A jacks on the AVR-5803 and set all settings on the setup menu to "A". (This is the factory default setting. For details, see page 17.)
- The signals from the surround channels reflect off the walls as shown on the diagram at the left, creating an enveloping and realistic surround sound presentation. For multi-channel music sources however, the use of bipolar or dipolar speakers mounted at the sides of the listening position may not be satisfactory in order to create a coherent 360 degree surround sound field. Connect another pair of direct radiating speakers as described in example (3) and place them at the rear corners of the room facing towards the prime listening position.

(3) When using different surround speakers for movies and music

To achieve more effective surround sound for both movies and music, use different sets of surround speakers and different surround modes for the two types of sources.

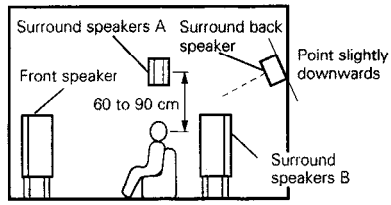


As seen from above

- Set the front speakers slightly wider apart than the setup for watching movies only and point them toward the listening position in order assure clear positioning of the sound.
- Set the center speaker in the same positions as in example (1).
- Set surround speakers A for watching movies in the positions described in example (1) or (2), depending on the types of speakers used.
- Set surround speakers B for playing multi-channel music at the same height as the front speakers and slightly at an angle to the rear of the listening position, and point them toward the listening position.
- Connect the surround speakers for watching movies to the surround speaker A jacks on the AVR-5803, the surround speakers for playing multi-channel music to the surround speaker B jacks. Set the surround speaker selection on the setup menu. (For instructions, see page 21.)
- To activate the appropriate speakers for movies and music, we suggest that during setup, choose Dolby Digital/DTS with THX and Surround Speakers A (the bipolar or dipolar speakers mounted at the sides of the listening position).

  Choose Dolby Digital/DTS without THX and Surround Speakers B (the direct radiating speakers mounted at the rear corners of the listening room). Then, by simply activating the THX function (used during movie playback, the Surround A speakers are automatically activated. For multi-channel music listening (Dolby Digital or DTS music programs), turn off the THX enhancements by touching the THX button on the remote control, and the Surround B speakers will be automatically activated.

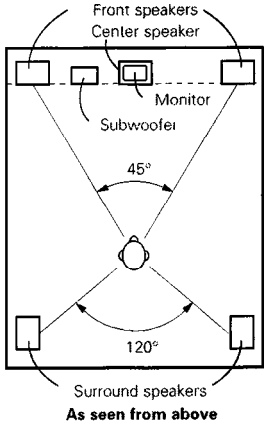
  Example: Movie sources (Dolby, DTS surround, etc.)
  "THX" or "THX 5.1" mode: Speakers A
  Music sources (DVD video, DTS CD, etc.)
  "Dolby/DTS surround": Speakers B



As seen from the side

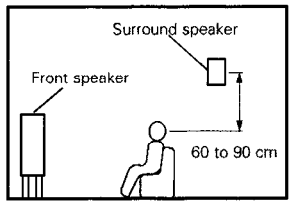
※ The speakers can be switched at the touch of a button by turning HOME THX CINEMA on when playing movies and off when playing multi-channel music.

2. When not using surround back speakers



As seen from above

- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the owner's manual for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.
- Connect the surround speakers to the surround speaker A jacks on the AVR-5803 and set all settings on the setup menu to "A". (This is the factory default setting. For details, see page 17.)



As seen from the side

The surround speakers can be switched freely during playback with the surround parameter adjustment. (For instructions, see page 41.)

Surround

The AVR-5803 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

(1) Dolby Surround

① Dolby Digital (Dolby Surround AC-3)

Dolby Digital is the multi-channel digital signal format developed by Dolby Laboratories.

Dolby Digital consists of up to "5.1" channels - front left, front right, center, surround left, surround right, and an additional channel exclusively reserved for additional deep bass sound effects (the Low Frequency Effects – LFE – channel, also called the ".1" channel, containing bass frequencies of up to 120 Hz).

Unlike the analog Dolby Pro Logic format, Dolby Digital's main channels can all contain full range sound information, from the lowest bass, up to the highest frequencies – 22 kHz. The signals within each channel are distinct from the others, allowing pinpoint sound imaging, and Dolby Digital offers tremendous dynamic range from the most powerful sound effects to the quietest, softest sounds, free from noise and distortion.

■ Dolby Digital and Dolby Pro Logic

Comparison of home surround systems	Dolby Digital	Dolby Pro Logic
No. recorded channels (elements)	5.1 ch	2 ch
No. playback channels	5.1 ch	4 ch
Playback channels (max.)	L, R, C, SL, SR, SW	L, R, C, S (SW - recommended)
Audio processing	Digital discrete processing Dolby Digital (AC-3) encoding/decoding	Analog matrix processing Dolby Surround
High frequency playback limit of surround channel	20 kHz	7 kHz

■ Dolby Digital compatible media and playback methods

Marks indicating Dolby Digital compatibility: DOLBY DIGITAL and DOLBY SURROUND AC-3 DIGITAL.

The following are general examples. Also refer to the player's operating instructions.

Media	Dolby Digital output jacks	Playback method (reference page)
LD (VDP) ※ 1 ※ 2 ※ 3	Coaxial Dolby Digital RF output jack ※ 1 ※ 2 ※ 3	Set the input mode to "AUTO". (Page 39)
DVD ※ 2	Optical or coaxial digital output (same as for PCM) ※ 4	Set the input mode to "AUTO". (Page 39)
Others (satellite broadcasts, CATV, etc.)	Optical or coaxial digital output (same as for PCM)	Set the input mode to "AUTO". (Page 39)

※ 1 When playing in Dolby Digital with a Dolby Digital compatible LD player, connect the LD (VDP) player to the VDP function.

※ 2 When the LD/DVD compatible player is equipped with Dolby Digital RF outputs, the LD's Dolby Digital output is output from the RF jacks and the DVD's Dolby Digital output is output from the optical or coaxial digital jacks. Select the input mode according to the type of media being played (LD or DVD). You may wish to connect the outboard RF demodulator's digital output to the AVR-5803's VDP input.

※ 3 If the player is switched from the pause or search mode to the play mode when playing an LD in the "AUTO" mode (see page 39), analog sound may be output momentarily before the sound switches to Dolby Digital. This is because the Dolby Digital RF signals output from the LD are not output during the pause and search modes, so during this type the input mode is switched according to the "AUTO" mode's signal priority order (see page 39). If this happens, switch to the "RF" (fixed RF input) mode. No analog sound will be output.

※ 4 Some DVD digital outputs have the function of switching the Dolby Digital signal output method between "bit stream" and "(convert to) PCM". When playing in Dolby Digital surround on the AVR-5803, switch the DVD player's output mode to "bit stream". In some cases players are equipped with both "bit stream + PCM" and "PCM only" digital outputs. In this case connect the "bit stream + PCM" jacks to the AVR-5803.

② **Dolby Pro Logic II**

- Dolby Pro Logic II is a new multi-channel playback format developed by Dolby Laboratories using feedback logic steering technology and offering improvements over conventional Dolby Pro Logic circuits.
- Dolby Pro Logic II can be used to decode not only sources recorded in Dolby Surround (※) but also regular stereo sources into five channels (front left, front right, center, surround left and surround right) to achieve surround sound.
- Whereas with conventional Dolby Pro Logic the surround channel playback frequency band was limited, Dolby Pro Logic II offers a wider band range (20 Hz to 20 kHz or greater). In addition, the surround channels were monaural (the surround left and right channels were the same) with previous Dolby Pro Logic, but Dolby Pro Logic II they are played as stereo signals.
- Various parameters can be set according to the type of source and the contents, so it is possible to achieve optimum decoding (see page 57).

※ Sources recorded in Dolby Surround

These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.

Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassettes to be played on stereo VCRs, as well as for the stereo broadcast signals of FM radio, TV, satellite broadcasts and cable TV.

Decoding these signals with Dolby Pro Logic makes it possible to achieve multi-channel surround playback. The signals can also be played on ordinary stereo equipment, in which case they provide normal stereo sound.

There are two types of DVD Dolby surround recording signals.

① 2-channel PCM stereo signals

② 2-channel Dolby Digital signals

■ **Sources recorded in Dolby Surround are indicated with the logo mark shown below.**

Dolby Surround support mark: DOLBY SURROUND

Manufactured under license from Dolby Laboratories.
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③ **Dolby Headphone**

- This is a three-dimensional sound technology developed jointly by Dolby Laboratories and Lake Technology Ltd. of Australia for achieving surround sound using regular headphones.
- Previously, when using headphones all the sounds resonated inside the head and it was uncomfortable to listen over headphones for long periods of time. Dolby Headphone simulates speaker playback in a room and places the sound at the front or the sides, outside the head, to achieve a powerful sound like the sound of movie or home theaters. This technology is mainly for multichannel audio/video equipment with Dolby Digital or Dolby Pro Logic Surround decoding functions and works with a high performance digital signal processing (DSP) chip.
- Dolby Headphone is effective not only for multichannel sources but also for stereo programs.
- On the AVR-5803, it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.

(2) DTS Digital Surround

DTS Digital Surround (also called simply DTS) is a multi-channel digital signal format developed by Digital Theater Systems.

DTS offers the same "5.1" playback channels as Dolby Digital (front left, front right and center, surround left and surround right) as well as the stereo 2-channel mode. The signals for the different channels are fully independent, eliminating the risk of deterioration of sound quality due to interference between signals, crosstalk, etc.

DTS features a relatively higher bit rate as compared to Dolby Digital (1234 kbps for CDs and LDs, 1536 kbps for DVDs) so it operates with a relatively low compression rate. Because of this the amount of data is great, and when DTS playback is used in movie theaters, a separate CD-ROM synchronized with the film is played.

With LDs and DVDs, there is of course no need for an extra disc; the pictures and sound can be recorded simultaneously on the same disc, so the discs can be handled in the same way as discs with other formats.

There are also music CDs recorded in DTS. These CDs include 5.1-channel surround signals (compared to two channels on current CDs). They do not include picture data, but they offer surround playback on CD players that are equipped with digital outputs (PCM type digital output required).

DTS surround track playback offers the same intricate, grand sound as in a movie theater, right in your own listening room.

■ **DTS compatible media and playback methods**

Marks indicating DTS compatibility: DIGITAL dts SURROUND and dts .

The following are general examples. Also refer to the player's operating instructions.

Media	DTS Digital output jacks	Playback method (reference page)
CD	Optical or coaxial digital output (same as for PCM) ※ 2	Set the input mode to "AUTO" or "DTS" (page 39). Never set the mode to "ANALOG" or "PCM". ※ 1
LD (VDP)	Optical or coaxial digital output (same as for PCM) ※ 2	Set the input mode to "AUTO" or "DTS" (page 39). Never set the mode to "ANALOG" or "PCM". ※ 1
DVD	Optical or coaxial digital output (same as for PCM) ※ 3	Set the input mode to "AUTO" or "DTS" (page 39).

※ 1 DTS signals are recorded in the same way on CDs and LDs as PCM signals. Because of this, the un-decoded DTS signals are output as random "hissy" noise from the CD or LD player's analog outputs. If this noise is played with the amplifier set at a very high volume, it may possibly cause damage to the speakers. To avoid this, be sure to switch the input mode to "AUTO" or "DTS" before playing CDs or LDs recorded in DTS. Also, never switch the input mode to "ANALOG" or "PCM" during playback. The same holds true when playing CDs or LDs on a DVD player or LD/DVD compatible player. For DVDs, the DTS signals are recorded in a special way so this problem does not occur.

※ 2 The signals provided at the digital outputs of a CD or LD player may undergo some sort of internal signal processing (output level adjustment, sampling frequency conversion, etc.). In this case the DTS-encoded signals may be processed erroneously, in which case they cannot be decoded by the AVR-5803, or may only produce noise. Before playing DTS signals for the first time, turn down the master volume to a low level, start playing the DTS disc, then check whether the DTS indicator on the AVR-5803 (see page 54) lights before turning up the master volume.

※ 3 A DVD player with DTS-compatible digital output is required to play DTS DVDs. A DTS Digital Output logo is featured on the front panel of compatible DVD players. Recent DENON DVD player models feature DTS-compatible digital output – consult the player's owner's manual for information on configuring the digital output for DTS playback of DTS-encoded DVDs.

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(3) DTS-ES Extended Surround ™

DTS-ES Extended Surround is a new multi-channel digital signal format developed by Digital Theater Systems Inc. While offering high compatibility with the conventional DTS Digital Surround format, DTS-ES Extended Surround greatly improves the 360-degree surround impression and space expression thanks to further expanded surround signals. This format has been used professionally in movie theaters since 1999.

In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES Extended Surround also offers the SB (Surround Back, sometimes also referred to as "surround center") channel for surround playback with a total of 6.1 channels. DTS-ES Extended Surround includes two signal formats with different surround signal recording methods, as described below.

■ DTS-ES™ Discrete 6.1

DTS-ES Discrete 6.1 is the newest recording format. With it, all 6.1 channels (including the SB channel) are recorded independently using a digital discrete system. The main feature of this format is that because the SL, SR and SB channels are fully independent, the sound can be designed with total freedom and it is possible to achieve a sense that the acoustic images are moving about freely among the background sounds surrounding the listener from 360 degrees.

Though maximum performance is achieved when sound tracks recorded with this system are played using a DTS-ES decoder, when played with a conventional DTS decoder the SB channel signals are automatically down-mixed to the SL and SR channels, so none of the signal components are lost.

■ DTS-ES™ Matrix 6.1

With this format, the additional SB channel signals undergo matrix encoding and are input to the SL and SR channels beforehand. Upon playback they are decoded to the SL, SR and SB channels. The performance of the encoder used at the time of recording can be fully matched using a high precision digital matrix decoder developed by DTS, thereby achieving surround sound more faithful to the producer's sound design aims than with conventional 5.1- or 6.1-channel systems.

In addition, the bit stream format is 100% compatible with conventional DTS signals, so the effect of the Matrix 6.1 format can be achieved even with 5.1-channel signal sources. Of course it is also possible to play DTS-ES Matrix 6.1 encoded sources with a DTS 5.1-channel decoder.

When DTS-ES Discrete 6.1 or Matrix 6.1 encoded sources are decoded with a DTS-ES decoder, the format is automatically detected upon decoding and the optimum playing mode is selected. However, some Matrix 6.1 sources may be detected as having a 5.1-channel format, so the DTS-ES Matrix 6.1 mode must be set manually to play these sources.

(For instructions on selecting the surround mode, see page 54.)

The DTS-ES decoder includes another function, the DTS Neo:6 surround mode for 6.1-channel playback of digital PCM and analog signal sources.

■ DTS Neo:6™ surround

This mode applies conventional 2-channel signals to the high precision digital matrix decoder used for DTS-ES Matrix 6.1 to achieve 6.1-channel surround playback. High precision input signal detection and matrix processing enable full band reproduction (frequency response of 20 Hz to 20 kHz or greater) for all 6.1 channels, and separation between the different channels is improved to the same level as that of a digital discrete system.

DTS Neo:6 surround includes two modes for selecting the optimum decoding for the signal source.

- **DTS Neo:6 Cinema**
  This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.
  This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).
- **DTS Neo:6 Music**
  This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

(4) DTS 96/24

The sampling frequency, number of bits and number of channels used for recording of music, etc., in studios has been increasing in recent years, and there are a growing number of high quality signal sources, including 96 kHz/24 bit 5.1-channel sources.

For example, there are high picture/sound quality DVD video sources with 96 kHz/24 bit stereo PCM audio tracks.
However, because the data rate for these audio tracks is extremely high, there are limits to recording them on two channels only, and since the quality of the pictures must be restricted it is common to only include still pictures.
In addition, 96 kHz/24 bit 5.1-channel surround is possible with DVD audio sources, but DVD audio players are required to play them with this high quality.

DTS 96/24 is a multi-channel digital signal format developed by Digital Theater Systems Inc. in order to deal with this situation.

Conventional surround formats used sampling frequencies of 48 or 44.1 kHz, so 20 kHz was about the maximum playback signal frequency.
With DTS 96/24, the sampling frequency is increased to 96 or 88.2 kHz to achieve a wide frequency range of over 40 kHz.
In addition, DTS 96/24 has a resolution of 24 bits, resulting in the same frequency band and dynamic range as 96 kHz/24 bit PCM.

As with conventional DTS Surround, DTS 96/24 is compatible with a maximum of 5.1 channels, so sources recorded using DTS 96/24 can be played in high sampling frequency, multiple channel audio with such normal media as DVD videos and CDs.
Thus, with DTS 96/24, the same 96 kHz/24 bit multi-channel surround sound as with DVD-Audio can be achieved while viewing DVD-Video images on a conventional DVD-Video player (※1). Furthermore, with DTS 96/24 compatible CDs, 88.2 kHz/24 bit multi-channel surround can be achieved using normal CD/LD players (※1).

Even with the high quality multi-channel signals, the recording time is the same as with conventional DTS surround sources.
What's more, DTS 96/24 is fully compatible with the conventional DTS surround format, so DTS 96/24 signal sources can be played with a sampling frequency of 48 kHz or 44.1 kHz on conventional DTS or DTS-ES surround decoders (※2).

※1: A DVD player with DTS digital output capabilities (for CD/LD players, a player with digital outputs for conventional DTS CDs/LDs) and a disc recorded in DTS 96/24 are required.
※2: The resolution is 24 or 20 bits, depending on the decoder.

(5) Home THX Cinema Surround

THX is an exclusive set of standards and technologies established by the world-renowned film production company, Lucasfilm Ltd. THX grew from George Lucas' personal desire to make your experience of the film soundtrack, in both movie theaters and in your home theater, as faithful as possible to what the director intended.

Movie soundtracks are mixed in special movie theaters called dubbing stages and are designed to be played back in movie theaters with similar equipment and conditions. The soundtrack created for movie theaters is then transferred directly onto Laserdisc, VHS tape, DVD, etc., and is not changed for playback in a small home theater environment.

THX engineers developed patented technologies to accurately translate the sound from the movie theater environment into the home, correcting the tonal and spatial errors that occur. On the AVR-5803, when the Home THX Cinema mode is on, THX processing is automatically added after the Dolby Pro Logic, Dolby Digital or DTS decoder:

Re-Equalization™
The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home because film soundtracks are designed to be played back in large movie theaters using very different professional equipment. Re-Equalization restores the correct tonal balance for watching a movie soundtrack in a small home environment.

Timbre Matching™
The human ear changes our perception of a sound depending on the direction from which the sound is coming. In a movie theater, there is an array of surround speakers so that the surround information is all around you. In a home theater, only two speakers located to the side of your head are used. The Timbre Matching feature filters the information going to the surround speakers so that they more closely match the tonal characteristics of the sound coming from the front speakers. This ensures seamless panning between the front and surround speakers.

Adaptive Decorrelation™
In a movie theater, a large number of surround speakers help create an enveloping surround sound experience, while in a home theater there are usually only two speakers. This can make the surround speakers sound like headphones that lack spaciousness and envelopment. The surround sounds will also collapse into the closest speaker as you move away from the middle seating position. Adaptive Decorrelation slightly changes one surround channel's time and phase relationship with respect to the other surround channel. This expands the listening position and creates—with only two speakers—the same spacious surround experience as in a movie theater.

THX Ultra2™

Before any home theater component can be THX Ultra2 certified, it must incorporate all the features above and also pass a rigorous series of quality and performance tests. Only then can a product feature the THX Ultra2 logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Ultra2 requirements cover every aspect of the product including power amplifier performance, pre-amplifier performance and operation, as well as hundreds of other parameters in both the digital and analog domain.

In addition to improvements to the power amplifier with respect to previous THX Ultra standards, two surround modes have been added: the THX Ultra2 Cinema mode and the THX MusicMode.

THX Ultra2 Cinema

THX Ultra2 Cinema mode plays 5.1 movies using all 8 speakers giving you the best possible movie watching experience. In this mode, new THX processing blends the side surround speakers and back surround speakers providing the optimal mix of ambient and directional surround sounds.

DTS-ES (Matrix and 6.1 Discrete) and Dolby Digital Surround EX encoded soundtracks will be automatically detected in Ultra2 Cinema mode if the appropriate flag has been encoded.

Some Dolby Digital Surround EX soundtracks are missing the digital flag that allows automatic switching. If you know that the movie that you are watching is encoded in Surround EX, you can manually select the THX Surround EX playback mode, otherwise THX Ultra2 Cinema mode will apply processing to provide optimum replay.

THX MusicMode

For the replay of 5.1 multi-channel music the THX MusicMode should be selected. In this mode new THX processing is applied to the surround channels of all 5.1 encoded music sources such as DTS and Dolby Digital to provide a wide stable rear soundstage.

Advanced Speaker Array

ASA processing offers maximum effect when two surround back speakers are used and the speakers are placed near each other. This technology is used for Ultra2 Cinema, THX Music MODE and THX Surround EX.

Boundary Gain Compensation

When using a THX Ultra2 compatible subwoofer or a subwoofer with ultra-low frequency playback capabilities (with a frequency response extending to approximately 20 Hz), the low frequency band may rise and the sound may seem booming. This technology compensates the gain and makes the audible level flat.

Lucasfilm, THX, Home THX, Re-Equalization, Timbre Matching, Adaptive Decorrelation and THX Ultra are trademarks of Lucasfilm Ltd.

(6) THX Surround EX

In 1999, a new surround system was launched simultaneously with the release of the movie "Star Wars Episode I". "Dolby Digital Surround EX" is a new movie sound track that greatly enhances the sense of spatial expression and the positioning of the surround channel sound. The result is 360 degrees of movement and moving sound effects that seem to pass right over the listener's head.

This system was developed jointly by Lucasfilm THX and Dolby Laboratories, fusing Lucasfilm's idea of improving spatial expression and achieving a uniform 360 degree sound positioning with Dolby Laboratories' matrix encoding technology. Emphasis was placed on compatibility with the existing system Dolby Digital 5.1-channel, and the new "surround back (SB) channel" was added to achieve improvements over the conventional 5.1-channel system in terms of the positioning of the sound at the rear, the acoustic image of sound moving from the two sides to the back as well as sound moving from the front to the center rear with the multi surround speaker systems used in movie theaters, thereby enabling various types of surround sound.

The surround back channel signal is a matrix-encoded signal inserted into both the Dolby Digital SL (surround left) and SR (surround right) channels. Upon playback, the signals are decoded by a high precision digital matrix decoder within the Dolby Digital decoder into the SL, SR and SB channels and output as 6.1 channels of signals. With the AVR-5803, the signals further undergo Home THX Cinema processing to achieve a THX Surround EX system.

Even without the proper environment for playing the SB channel, Dolby Digital Surround EX signals are 100% compatible with existing 5.1-channel playback systems, so they can be played as such. In this case, the SB channel signal is produced as a monaural signal from both the SL and SR channels, so none of the signal components are missing. The effects specific to THX Surround EX (the sense of spatial expression and the positioning of the sound), however, are the same as with conventional 5.1-channel surround systems.

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System setup items and default values (set upon shipment from the factory)

	System setup			Default settings							
	Speaker Configuration	Input the combination of speakers in your system and their corresponding sizes (Small for regular speakers, Large for full-size, full-range) to automatically set the composition of the signals output from the speakers and the frequency response		Front Sp	Center Sp.	Sub Woofer	Surround Sp.	Surround Back Sp.			
				Small	Small	Yes	Small	Small / 2spkrs			
①	(Surround Speaker Setting)	Use this function when using multiple surround speaker combinations for more ideal surround sound. Once the combinations of surround speakers to be used for the different surround modes are preset, the surround speakers are selected automatically according to the surround mode.	Surround mode	DOLBY/ DTS SURROUND	THX THX 5.1	WIDE SCREEN	5CH/7CH STEREO	DSP SIMULATION	MULTI CH DIRECT	—	—
			Surround speaker	A	A	A	A	A	A	—	—
	Crossover Frequency	Set the frequency (Hz) below which the bass sound of the various speakers is to be output from the subwoofer.		FIXED —THX—							
	Subwoofer mode	This selects the subwoofer speaker for playing deep bass signals.		LFE —THX—							
②	Delay Time	This parameter is for optimizing the timing with which the audio signals are produced from the speakers and subwoofer according to the listening position.		Front L & R	Center	Sub Woofer	Surround L & R	SBL & SBR			
				12.0 ft (3.60 m)	12.0 ft (3.60 m)	12.0 ft (3.60 m)	10.0 ft (3.00 m)	10.0 ft (3.00 m)			
③	Channel Level	This adjusts the volume of the signals output from the speakers and subwoofer for the different channels in order to obtain optimum effects.		Front L	Front R	Center	Surround L	Surround R	Surround Back L	Surround Back R	Subwoofer
				0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB	0.0 dB
④	THX Audio Setup	Boundary Gain compensation	When using a THX Ultra2 compatible subwoofer, set the subwoofer's frequency response.	THX Ultra2 Subwoofer = NO							
		Surround Back Speaker Position	When using two surround back speakers, set the distance of the two speakers.	The Distance Between SBL/SBR = 0 ft to 1 ft (0 m to 0.3 m)							
⑤	Subwoofer Peak Limit Lev	This parameter is for detecting the maximum level of the low bass signals output from the subwoofer channel in order to protect the subwoofer from damage and prevent unpleasant distorted sounds from being produced.		Peak Limiter = OFF							
⑥	Digital In Assignment	This assigns the digital input jacks for the different input sources.	Input source	CD	DVD	VDP	TV	DBS/SAT	VCR-1	VCR-2	VCR-3	V. AUX	TAPE-1	TAPE-2
			Digital inputs	COAXIAL 1	COAXIAL 2	COAXIAL 3	OPTICAL 1	OPTICAL 2	OPTICAL 3	OPTICAL 4	COAXIAL 4	COAXIAL 5	OPTICAL 5	OPTICAL 6
⑦	Video Input Mode	Set the input signal to be output from the monitor output terminal.		AUTO							
⑧	Audio Delay	Adjust the time delay of the video and audio signals.		Audio Delay = 0 ms							
⑨	Multi Zone Control	Multi Zone1 vol. Level	This sets the output level for the multi-zone 1 output jacks.	Variable							
		Power AMP Assignment	Set this to switch the surround back channel's power amplifier for use for multi-zone 2.	Surround Back							
⑩	Auto Surround Mode	Auto surround mode function setting		Auto Surround Mode = ON							
⑪	Ext. In Setup	Set the Ext.In terminal playback method.		MODE = DSP, S.Back = NOT USED, SW Level = +15 dB, INPUT Vol. = 0 dB							
⑫	Digital Multi Ch In	Digital multichannel input setting.		DENON Link = OFF, Digital Ext. In = OFF							
⑬	On Screen Display	This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated (from MONITOR 1 outputs only).		On Screen Display = ON							
⑭	Auto Tuner Presets	FM stations are received automatically and stored in the memory		A1 ~ A8	87.5/89.1/98.1/107.9/90.1/90.1/90.1/90.1 MHz						
				B1 ~B8	520/600/1000/1400/1500/1710 kHz/90.1/90.1 MHz						
				C1 ~C8	90.1 MHz						
				D1 ~D8	90.1 MHz						
				E1 ~E8	90.1 MHz						
⑮	Setup Lock	Set whether or not to lock the system setup settings so that they cannot be changed.		Setup Lock = OFF							

Surround modes and parameters

Mode	Signals and adjustability in the different modes								
	Channel output					Parameter (default values are shown in parentheses)			
						When playing Dolby Digital and DTS signals			SB CH OUT (MODE)
	FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	SUB-WOOFER	D. COMP	LFE	AFDM	
PURE DIRECT, DIRECT	○	×	×	×	◎	○ (OFF)	○ (0dB)	×	×
MULTI CH DIRECT	○	◎	◎	◎	◎	×	×	×	○
STEREO	○	×	×	×	◎	○ (OFF)	○ (0dB)	×	×
EXTERNAL INPUT	○	◎	◎	◎	◎	×	×	×	×
MULTI CH IN	○	◎	◎	◎	◎	×	×	×	○
WIDE SCREEN	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
HOME THX CINEMA	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DOLBY PRO LOGIC II	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DOLBY DIGITAL	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DTS SURROUND	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
DTS NEO:6	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	○	○
5/7CH STEREO	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
SUPER STADIUM	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
ROCK ARENA	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
JAZZ CLUB	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
CLASSIC CONCERT	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
MONO MOVIE	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○
MATRIX	○	◎	◎	◎	◎	○ (OFF)	○ (0dB)	×	○

○ : Signal / Adjustable
× : No signal / Not adjustable
◎ : Turned on or off by speaker configuration setting

○ : Able
× : Unable

Mode	Signals and adjustability in the different modes									
	Parameter (default values are shown in parentheses)									
				SURROUND PARAMETER			PRO LOGIC II MUSIC MODE ONLY			NEO:6 MUSIC MODE ONLY
	TONE CONTROL	CINEMA EQ	MODE	ROOM SIZE	EFFECT LEVEL	DELAY TIME	PANORAMA	DIMENSION	CENTER WIDTH	CENTER IMAGE
PURE DIRECT, DIRECT	×	×	×	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	×	×	×	×
STEREO	○ (0dB)	×	×	×	×	×	×	×	×	×
EXTERNAL INPUT	○ (0dB)	×	×	×	×	×	×	×	×	×
MULTI CH IN	○ (0dB)	×	×	×	×	×	×	×	×	×
WIDE SCREEN	○ (0dB)	○ (OFF)	×	×	○ (ON, 10)	×	×	×	×	×
HOME THX CINEMA	×	×	○ (CINEMA)	×	×	×	×	×	×	×
DOLBY PRO LOGIC II	○ (0dB)	○ (OFF)	○ (CINEMA)	×	×	×	○ (OFF)	○ (3)	○ (3)	×
DOLBY DIGITAL	○ (0dB)	○ (OFF)	×	×	×	×	×	×	×	×
DTS SURROUND	○ (0dB)	○ (OFF)	×	×	×	×	×	×	×	×
DTS NEO:6	○ (0dB)	○ (OFF)	○ (CINEMA)	×	×	×	×	×	×	○ (0.2)
5/7CH STEREO	○ (0dB)	×	×	×	×	×	×	×	×	×
SUPER STADIUM	○ (Note 1)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
ROCK ARENA	○ (Note 2)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
JAZZ CLUB	○ (0dB)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
CLASSIC CONCERT	○ (0dB)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
MONO MOVIE	○ (0dB)	×	×	○ (Medium)	○ (10)	×	×	×	×	×
MATRIX	○ (0dB)	×	×	×	×	○ (30msec)	×	×	×	×

(Note 1) BASS: +6 dB, TREBLE: 0 dB
(Note 2) BASS: +8 dB, TREBLE: 4 dB

○ : Adjustable
× : Not adjustable

■ Differences in surround mode names depending on the input signals

Surround Mode	Input signals						
			DTS			DOLBY DIGITAL	
	ANALOG	LINEAR PCM	DTS (5.1 ch)	DTS 96/24 (5.1 ch)	DTS (6.1 ch)	D. D. (2 ch)	D. D. (5.1 ch)
PURE DIRECT, DIRECT	○	○	○	○	○	○	○
STEREO	○	○	○	○	○	○	○
HOME THX CINEMA	THX	THX	✳THX MTRX6.1 THX Ultra2 Cinema THX MUSIC MODE THX5.1	✳THX MTRX6.1 THX Ultra2 Cinema THX MUSIC MODE THX5.1	◎ THX DSCRT6.1 THX MTRX6 1	THX	✳THX SURROUND EX THX Ultra2 Cinema THX MUSIC MODE THX5.1
DTS SURROUND	／	／	✳DTS ES MTRX DTS SURROUND	✳DTS ES MTRX DTS 96/24	◎ DTS ES DSCRT6.1 DTS MTRX6.1	×	×
DTS NEO:6	DTS NEO:6	DTS NEO:6	×	×	×	DTS NEO:6	×
DOLBY DIGITAL	／	／	×	×	／	／	✳DOLBY DIGITAL EX DOLBY DIGITAL
DOLBY PRO LOGIC II	DOLBY PRO LOGIC II	DOLBY PRO LOGIC II	×	×	×	DOLBY PRO LOGIC II	×
DSP SIMULATION	○	○	○	○	○	○	○

○ : Selectable
✳ : The surround mode name differs depending on the "MODE/SB CH OUT" surround parameter setting.
◎ : The surround mode name differs depending on the input signal.
× : Not selectable

Relationship between the video input signal and monitor output according to the VIDEO INPUT MODE settings

VIDEO INPUT Mode	Input signals			MONITOR OUT		
	COMPONENT	S-VIDEO	VIDEO	COMPONENT	S-VIDEO	VIDEO
AUTO	／	／	○	VIDEO	VIDEO	VIDEO
	×	○	×	S-VIDEO	S-VIDEO	S-VIDEO
	／	○	○	S-VIDEO	S-VIDEO	✳ VIDEO
	○	／	／	COMPONENT	／	／
	○	＼	○	COMPONENT ✳1	VIDEO	VIDEO
	○	○	／	COMPONENT ✳2	S-VIDEO	S-VIDEO
	○	○	○	COMPONENT ✳2	S-VIDEO	✳ VIDEO

VIDEO INPUT Mode	Input signals			MONITOR OUT		
	COMPONENT	S-VIDEO	VIDEO	COMPONENT	S-VIDEO	VIDEO
COMPONENT	×	×	○	／	／	／
	＼	○	＼	＼	＼	＼
	／	○	○	／	／	／
	○	×	×	COMPONENT	×	×
	○	／	○	COMPONENT	／	／
	○	○	×	COMPONENT	／	／
	○	○	○	COMPONENT	＼	＼

VIDEO INPUT Mode	Input signals			MONITOR OUT		
	COMPONENT	S-VIDEO	VIDEO	COMPONENT	S-VIDEO	VIDEO
S-VIDEO	×	×	○	＼	＼	＼
	／	○	／	S-VIDEO	S-VIDEO	S-VIDEO
	×	○	○	S-VIDEO	S-VIDEO	S-VIDEO
	○	＼	＼	＼	＼	＼
	○	／	○	／	／	／
	○	○	×	S-VIDEO	S-VIDEO	S-VIDEO
	○	○	○	S-VIDEO	S-VIDEO	S-VIDEO

VIDEO INPUT Mode	Input signals			MONITOR OUT		
	COMPONENT	S-VIDEO	VIDEO	COMPONENT	S-VIDEO	VIDEO
VIDEO	＼	＼	○	VIDEO	VIDEO	VIDEO
	×	○	×	／	／	／
	×	○	○	VIDEO	VIDEO	VIDEO
	○	×	／	＼	＼	＼
	○	×	○	VIDEO	VIDEO	VIDEO
	○	○	＼	×	×	×
	○	○	○	VIDEO	VIDEO	VIDEO

○ : Signal input
／ : No signal

✳ VIDEO : No OSD
× : Not output
COMPONENT : On-screen display only displayed for SYSTEM SETUP, SURR.PARA and ON SCREEN buttons
✳1 : On-screen display superimposed on video signal and output
✳2 : On-screen display superimposed on S-video signal and output

17 SPECIFICATIONS

■ Audio section

• Power amplifier

Rated output:

Front:
170 W + 170 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
200 W + 200 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
Center:
170 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
200 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
Surround:
170 W + 170 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
200 W + 200 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
Surround Back/Multi:
170 W + 170 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
200 W + 200 W (6 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)

Dynamic power:

190 W x 2 ch (8 Ω/ohms)
310 W x 2 ch (4 Ω/ohms)
390 W x 2 ch (2 Ω/ohms)

Output terminals:

Front/Center/Surround Back: 6 ~ 16 Ω/ohms
Surround: A or B 6 ~ 16 Ω/ohms
A + B 8 ~ 16 Ω/ohms

• Analog

Input sensitivity / input impedance: 200 mV / 47 kΩ/kohms
Frequency response: 10 Hz ~ 100 kHz: +0, –3 dB (DIRECT mode)
S/N: 105 dB (DIRECT mode)
Distortion: 0.005% (20 Hz ~ 20 kHz) (DIRECT mode)
Rated output: 1.2 V

• Digital

D/A output:

Rated output — 2 V (at 0 dB playback)
Total harmonic distortion — 0.003% (1 kHz, at 0 dB)
S/N ratio — 115 dB
Dynamic range — 112 dB

Digital input: Format — Digital audio interface

• Phono equalizer (PHONO input — REC OUT)

Input sensitivity: 2.5 mV
RIAA deviation: ±1 dB (20 Hz to 20 kHz)
S/N: 74 dB (A weighting, with 5 mV input)
Rated output / Maximum output: 150 mV / 8 V
Distortion factor: 0.03% (1 kHz, 3 V)

■ Video section

• Standard video jacks

Input / output level and impedance: 1 Vp-p, 75 Ω/ohms
Frequency response: 5 Hz ~ 10 MHz — +0, –3 dB

• S-video jacks

Input / output level and impedance:

Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
C (color) signal — 0.286 Vp-p, 75 Ω/ohms

Frequency response: 5 Hz ~ 10 MHz — +0, –3 dB

• Color component video terminal

Input / output level and impedance:

Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
P_B/C_B (blue) signal — 0.7 Vp-p, 75 Ω/ohms
P_R/C_R (red) signal — 0.7Vp-p, 75 Ω/ohms

Frequency response: DC ~ 100 MHz — +0, –3 dB

■ Tuner section

	[FM] (note: µV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15} W)	**[AM]**
Receiving Range:	87.5 MHz ~ 107.9 MHz	520 kHz ~ 1710 kHz
Usable Sensitivity:	1.0 µV (11.2 dBf)	18 µV
50 dB Quieting Sensitivity:	MONO 1.6 µV (15.3 dBf)	
	STEREO 23 µV (38.5 dBf)	
S/N (IHF-A):	MONO 80 dB	50 dB
	STEREO 75 dB	
Total Harmonic Distortion (at 1 kHz):	MONO 0.15%	
	STEREO 0.3%	

■ **General**

Power supply:	AC 120 V, 60 Hz
Power consumption:	12 A
Maximum external dimensions:	434 (W) x 216 (H) x 486 (D) mm (17-3/32" x 8-1/2" x 19-9/64")
Mass:	29.0 kg (63 lbs 15 oz)

■ **Remote control unit (RC-8000)**

Batteries:	LR6/AA Type (four batteries)
External dimensions:	96 (W) x 38 (H) x 168.5 (D) mm (3-25/32" x 1-1/2" x 6-41/64")
Mass:	242 g (Approx. 8.5 oz) (not including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

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ENGLISH

Additional functions of the remote control unit (RC-8000)

A newer software version has been installed on the remote control unit (RC-8000). This new software adds the functions described below.
These functions can be used in addition to the functions already described in the manual.

1. **System call**
   The number of codes that can be registered for one system call button is increased from 10 to 20.
   (See page 20 of the operating instructions for instructions on making the settings and performing the operations.)
2. **CURSOR/PAGE button**
   In addition to the procedure described on page 7 of the operating instructions, the CURSOR/PAGE button automatically turns on (highlighted display) after one of the buttons below is pressed so that the cursor can be operated with the jog stick.

Buttons	AV AMP	: SURR. PARA., SYSTEM SETUP
	DVD	: SETUP, TITLE, MENU
	DBS	: MENU

   To cancel the cursor operating mode, press the CURSOR/PAGE button so that the display is no longer highlighted, returning the set to the normal page operating mode.
3. **Liquid crystal display auto off time**
   The factory default setting has been changed from 10 to 30 seconds.

FRANÇAIS

Fonctions supplémentaires de la télécommande (RC-8000)

Un logiciel plus récent a été installé dans la télécommande (RC-8000). Ce nouveau logiciel ajoute les fonctions décrites ci-dessous.
Ces fonctions peuvent être utilisées en plus des fonctions décrites auparavant dans le mode d'emploi.

1. **Appel de système**
   Le nombre de codes pouvant être enregistrés sur chaque touche d'appel de système a été augmenté de 10 à 20.
   (Voir page 52 du mode d'emploi pour plus d'instructions sur les réglages et pour effectuer ces opérations.)
2. **Touche CURSOR/PAGE**
   En plus de la procédure décrite à la page 39 du mode d'emploi, la touche CURSOR/PAGE s'allume automatiquement (affichage en surbrillance) après qu'une des touches ci-dessous ait été enfoncée de façon à ce que le curseur puisse être utilisé avec la manette.

Touches	AV AMP	: SURR. PARA., SYSTEM SETUP
	DVD	: SETUP, TITLE, MENU
	DBS	: MENU

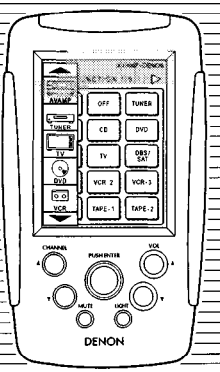
   Pour annuler le mode de fonctionnement par curseur, appuyer sur la touche CURSOR/PAGE de façon à ce que l'affichage ne soit plus en surbrillance, ce qui remet l'appareil en mode normal de fonctionnement par page.
3. **Temps d'arrêt automatique de l'affichage à cristaux liquides**
   Les réglages par défaut effectués à l'usine ont été changés de 10 à 30 secondes.

DENON

REMOTE CONTROL UNIT

RC-8000

OPERATING INSTRUCTIONS
MODE D'EMPLOI



FOR ENGLISH READERS PAGE 2 ~ PAGE 33
POUR LES LECTEURS FRANCAIS PAGE 34 ~ PAGE 65

"SERIAL NO. _____
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

"NO. DE SERIE _____
PRIERE DE NOTER LE NUMERO DE SERIE DE L'APPAREIL INSCRIT A L'ARRIERE DU COFFRET DE FAÇON A POUVOIR LE CONSULTER EN CAS DE PROBLEME."

■ **We greatly appreciate your purchase of this unit.**
■ **To be sure you take maximum advantage of all the features this unit has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.**

This device complies with Part 15 of the FCC Rules and Industry CANADA RSS210.
Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

TABLE OF CONTENTS

1 Features 3
2 Before Using 3
3 Names of Parts 4
4 Operation ..... 4~24
Introduction 4, 5
[1] Turning on the liquid crystal display 4
[2] Adjusting the brightness of the liquid crystal display 4
[3] Adjusting the touch panel 5
[4] Basic operation of the liquid crystal display 5, 6
Operating preset devices ..... 6~10
Preset Memory ..... 10~17
[1] Changing the preset memory of preset devices 12
[2] Adding new devices 13
[3] Operating devices for which the preset memory is set ..... 14~17
Learning Function ..... 18~19
[1] Using the learning function 18, 19
[2] Inputting button names 19
System Call Function ..... 20~22
[1] System call buttons 20
[2] Storing system call signals 20, 21
[3] Editing registered system call settings 21, 22
[4] Deleting registered system call settings 22
[5] Sending system call signals 22
[6] Changing the names of system call settings 22
Making the Various Settings 23, 24
[1] Backing up the current settings 23
[2] Making the sound settings 23
[3] Setting the liquid crystal display's auto off time 23
[4] Setting the back light's auto off time 24
Resetting 24
5 Other Registerable Devices 25
6 Customizing (setting the operating environment) ..... 26~31
Editing the icon display section ..... 26~28
[1] Adding devices 26
[2] Deleting devices 26
[3] Changing the positions of devices in the icon display section 27
[4] Registering device names 28
Customizing the Buttons 29, 30
[1] Adding buttons 29
[2] Deleting buttons 29
[3] Moving buttons 29, 30
[4] Changing button names 30
User Menu 31
7 One-button Search Function 31, 32
[1] Using the one-button search function 31, 32
8 RF Transmission Function 32
9 Factory Default Settings 32
10 Specifications 32
11 Cautions on Use 33
12 Troubleshooting 33

1 FEATURES

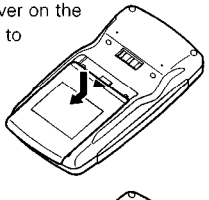
The RC-8000 can be used for integrated control of remote controllable devices connected to an AV amplifier (for example TV sets and DVD players) as well as remote control compatible peripheral devices (for example lighting equipment and power screens).
Icons are registered for 20 types of devices, and presettings are available for 14 of these device types. (Of the device types for which presettings are registered, six are for Denon products only).
Devices for which no presettings are registered can be operated using the learning function.
In addition, system call settings can be made to operate multiple devices at once in a "macro" sequence.

1. **Large liquid crystal touch display**
   320 x 240 dot liquid crystal display with EL back light.
2. **Preset memory function**
   Easy memory presetting thanks to a preset memory search function (1-button search).
3. **System call function**
   Up to 20 system call settings (10 codes per setting) can be registered.
   Delay times can be set between the transmission codes.
4. **Customizing function**
   Up to 23 extra devices to be used can be registered additionally, and buttons can be moved and their names changed for easier use.
5. **User menu function**
   The user menu settings can be used to register frequently used buttons on a single page and this page can always be displayed first.
6. **User backup function**
   Customized settings can be backed up so that set data is not lost.
7. **Learning function**
   The remote control signals of your devices can be stored ("learned") in the RC-8000, so all your equipment can be operated using the RC-8000.
   Approximately 200 codes can be learned.
8. **RF transmission function (only when the RC-8000 and RC-8001ST are used in combination)**
   RF transmission is possible when the RC-8000 is used in combination with the RC-8001ST.
9. **Charging function (only when the RC-8000 and RC-8001ST are used in combination)**
   When using the nickel cadmium battery included with the RC-8001ST, the RC-8000 can be charged on the RC-8001ST.
10. **USB update function**
    In the future the RC-8000 will allow customizing and updating of remote control signals on a personal computer through connection to the computer using the USB connector.
    (A separately available PC application program is required.)

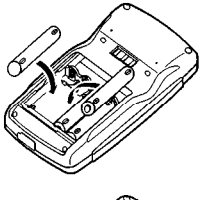
2 BEFORE USING

Loading the LR6 (AA size) alkaline batteries

① Slide the battery cover on the rear of the RC-8000 to remove it.



② Insert the included alkaline batteries, being careful to do so in the proper direction.

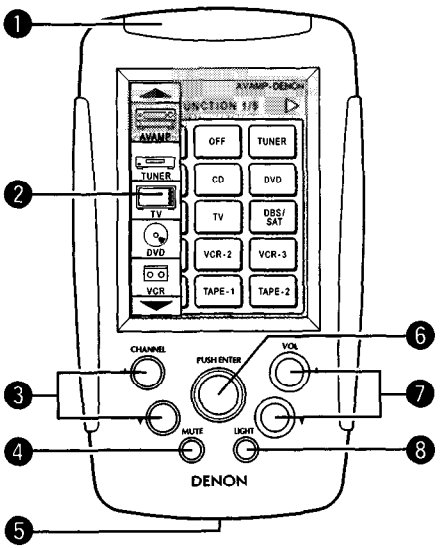


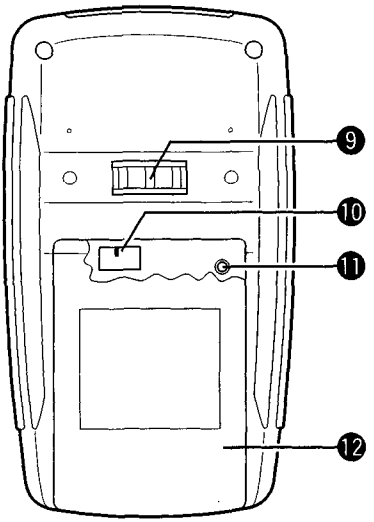
③ Close the battery cover.

Notes on Batteries

- Use LR6 (AA size) alkaline batteries in the remote control unit.
- The batteries should be replaced with new ones approximately once a year, though this depends on the frequency of usage.
- Even if less than a year has passed, replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the set. (The included battery is only for verifying operation. Replace it with a new battery as soon as possible.)
- When inserting the batteries, be sure to do so in the proper direction, following the "⊕" and "⊖" marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
  - Do not use a new battery together with an old one.
  - Do not use two different types of batteries.
  - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries from the remote control unit when you do not plan to use it for an extended period of time.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.
- The learned remote control signals may be cleared if no batteries are in the remote control unit for about 5 seconds.
  The factory-installed codes are in permanent memory, however.

3 NAMES OF PARTS





1. Transmitter
2. Touch panel
3. CHANNEL up/down buttons
4. MUTE button
5. USB terminal
6. JOG stick
7. VOL. (volume) up/down buttons
8. LIGHT (back light) button
9. Battery charging contacts
10. RF frequency selector switch
11. Reset button
12. Battery cover

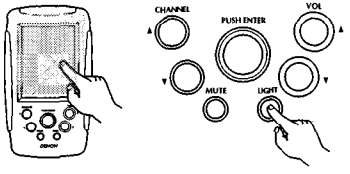
NOTE:
The USB terminal is a terminal that will be used in the future to update the microprocessor program, etc.

4 OPERATION

Introduction

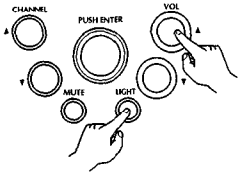
[1] Turning on the liquid crystal display

After loading the batteries, turn on the liquid crystal display.
Turn on the liquid crystal display by lightly touching the touch panel or by pressing the LIGHT button.
(The back light does not turn on when the touch panel is pressed.)
By default the liquid crystal display is set to remain on for 10 seconds.
The display time can be adjusted, so set "Setting the liquid crystal display's auto off time" and "Setting the back light's auto off time" to times that allow easy operation, referring to page 23 and 24.



[2] Adjusting the brightness of the liquid crystal display

Press the VOL. ▲ (up) and ▼ (down) buttons while pressing the LIGHT button to adjust the brightness of the liquid crystal display.
The display gets denser when the VOL. ▲ (up) button is pressed, lighter when the VOL. ▼ (down) button is pressed.



[3] Adjusting the touch panel

Adjust the touch panel so that keys on the touch panel can be operated with accuracy.

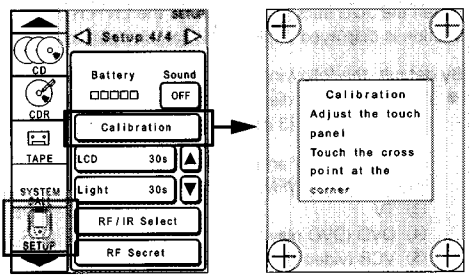
Press "SETUP" in the icon display section for at least 3 seconds. The setup screen appears.

Use the ◁ and ▷ buttons in the page display section to display page 4/4.

Press the "Calibration" button on the setup screen. The touch panel adjustment ("Calibration") screen appears.

Touch the intersection points of the "+" marks within the circles in the four corners of the touch panel adjustment screen using an object with a soft, narrow tip (such as a cotton swab). The display switches to a half-tone dot mesh.

The touch panel is adjusted and the setup screen reappears automatically.



NOTE:

The touch panel adjustment may go off due to changes in temperature during use.
If the adjustment is far off and the touch panel is difficult to operate, readjust it.
Also adjust the touch panel after replacing the batteries.

[4] Basic operation of the liquid crystal display

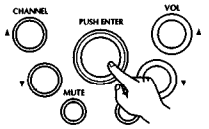
With the RC-8000, remote control signals are sent by gently touching buttons displayed on the liquid crystal display.

When icons or buttons are touched lightly, operation is notified by a beep and the display of that part switches to a half-tone dot mesh. To turn off the beep, refer to "Making the sound settings" on page 23.

Use the procedure described below to display the device to be operated and its buttons.

① If the liquid crystal display is off, either gently touch it or press the "LIGHT" button to turn it on.

② Press the JOG stick's "ENTER" button to display icon display section A.
(Icon display section A turns on and off each time the JOG stick is pressed.)



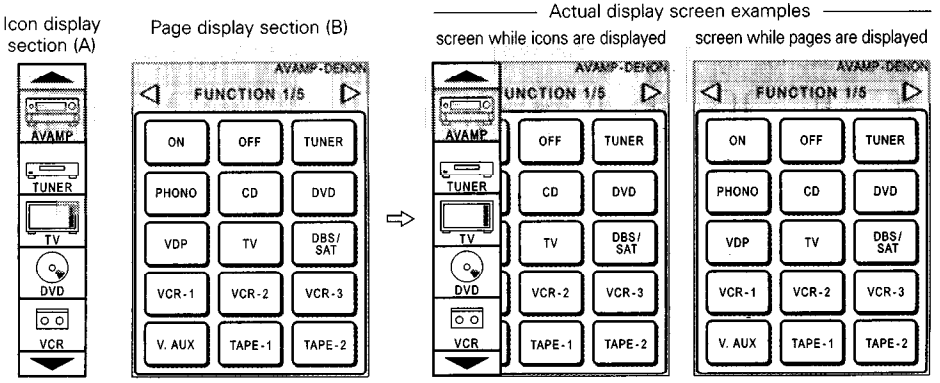
③ While icon display section A is displayed, press the ▲ and ▼ buttons in display section A to display the icon for the device you want to operate.
The displayed icons scroll five icons at a time each time the ▲ and ▼ button is pressed.

④ Select the icon for the device you want to operate and press that icon section.

⑤ The operating buttons for the selected device appear in page display section B.

⑥ Press the ◁ and ▷ buttons in the page display section to display the page containing the button you want to operate.

⑦ Press the button you want to operate. The remote control signal is sent and the selected device is operated.



Other operations

When icon display section A is displayed, the device icons can also be scrolled by tilting the JOG stick forward and backward. The half-tone dot mesh display moves and the page display section also changes.
When the JOG stick is pressed and the ENTER button is pressed, the icon display section turns off, the page display section is displayed and buttons can be operated.

By default, the following 10 icons (8 device types) are displayed in icon display section A.

※ Add devices not displayed by default using the procedure described in section "Adding devices" on page 26. (A maximum of 23 device types can be registered.)

① AV AMP (AV amplifier)
② TUNER (AM/FM tuner)
③ TV
④ DVD (DVD player)
⑤ VCR (video cassette recorder)
⑥ CD (CD player)
⑦ CDR (CD recorder)
⑧ TAPE (tape deck)
⑨ SYS. CALL (system call)
⑩ SETUP

NOTES:

- "SYS. CALL" ⑨ and "SETUP" ⑩ are icons for conducting various settings.
- The buttons in the page display section (B) cannot be operated while the icon display section (A) is displayed.
- The "SETUP" icon cannot be selected by tilting the JOG stick forward or backward.
- If the "SETUP" icon is not displayed in the icon display section, use the ▲ and ▼ buttons to display it.

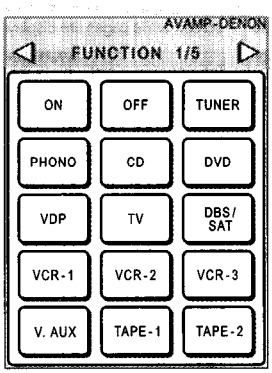
Operating preset devices

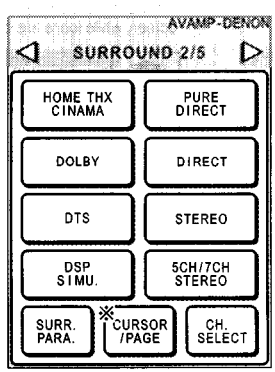
For details, refer to the individual devices' operating instructions.
To register devices not displayed by default or to change to brands other than those set by default, add the device using the procedure described in section "Preset Memory" on page 10.
For instructions on editing (sorting or deleting) the icon display section, also refer to "Adding new devices" on page 13.
Depending on the product, response may be slow. If this is the case, buttons may operate if they are pressed for a little longer than usual.
Note that some devices and some buttons may not be operable.

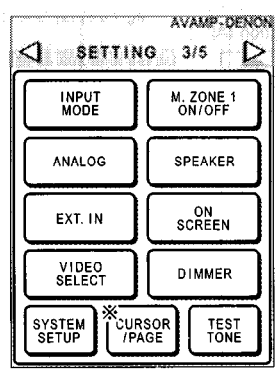
① Press an icon in the icon display section to select the device to be operated.
② Either press the ◁ and ▷ buttons on the page display section or tilt the JOG stick to the left or right to display the page containing the button you want to operate.
③ Press the button you want to operate to send its remote control signal.

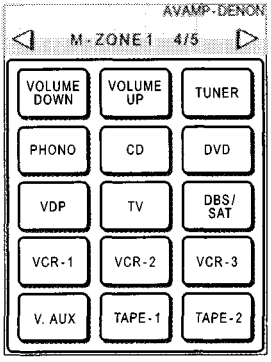
- The displayed button names are the same as the default button names.
- The button names for buttons from which signals can be transmitted are displayed in black characters.
- The button names for buttons at which no transmission codes are set are displayed in gray characters.
- No transmission codes are set for buttons which do not have button names.

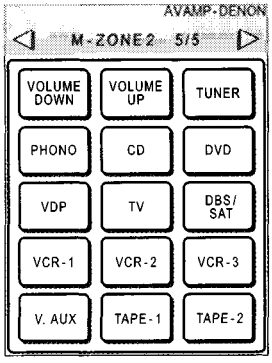
■ DENON AVAMP (AV amplifier) system buttons



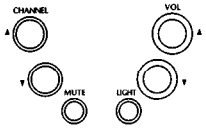








Transmission codes of independent buttons

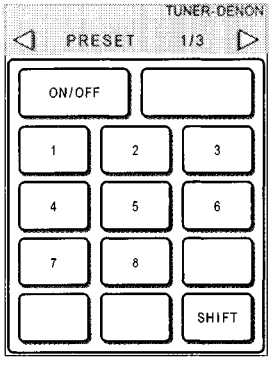


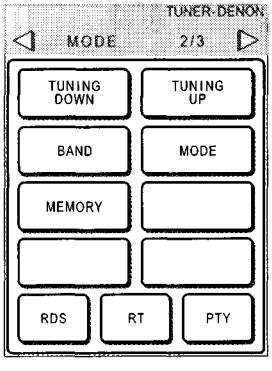
CH▲ : Tuner preset
CH▼ : Tuner preset
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

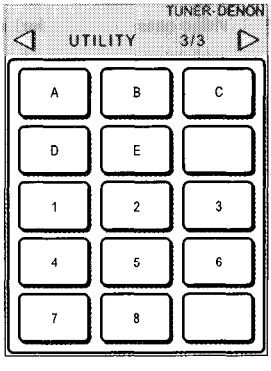
- Denon AV receivers with one set of multi-room outputs can be operated with the M-ZONE 2 buttons.

※ **About the CURSOR/PAGE button**
When the CURSOR/PAGE button is pressed once, the display is highlighted. When the JOG stick is operated while the display is highlighted, the cursor movement and enter remote control codes are sent.
When the CURSOR/PAGE button is pressed again, the display returns to normal and the mode switches back to the normal page operation mode The CURSOR/PAGE button can be operated when an AV amplifier, DVD player or DBS receiver is selected.

■ DENON TUNER system buttons

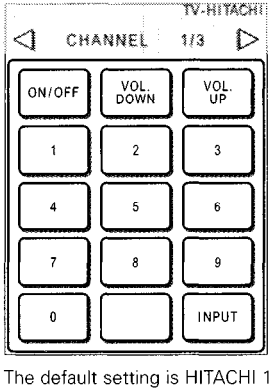


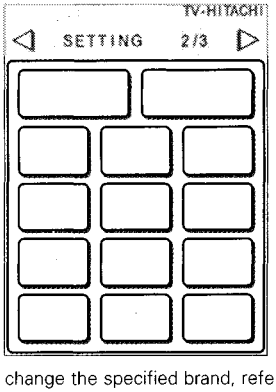




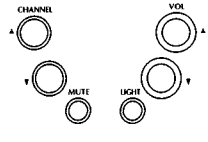
The transmission codes of independent buttons are the same as for "AV AMP".

■ TV system buttons





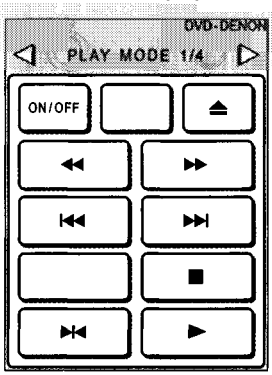
Transmission codes of independent buttons

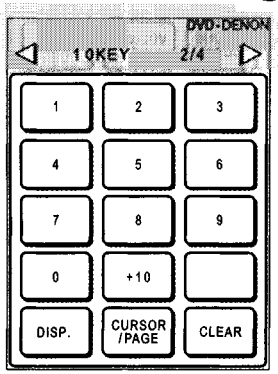


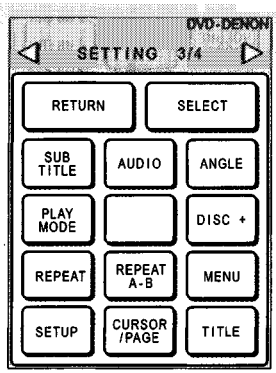
CH▲ : TV channel
CH▼ : TV channel
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

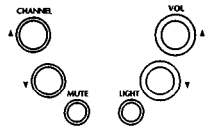
The default setting is HITACHI 1. To change the specified brand, refer to "Changing the preset memory of preset devices" on page 12.

■ DENON DVD (DVD player and DVD changer) system buttons





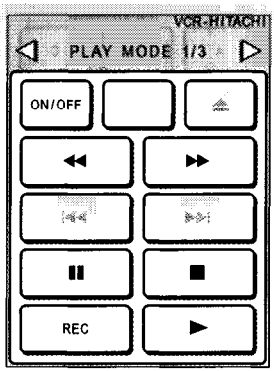


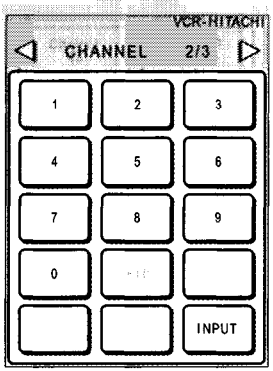


Transmission codes of independent buttons

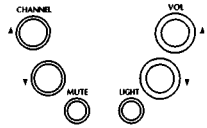
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

■ VCR (video cassette recorder) system buttons





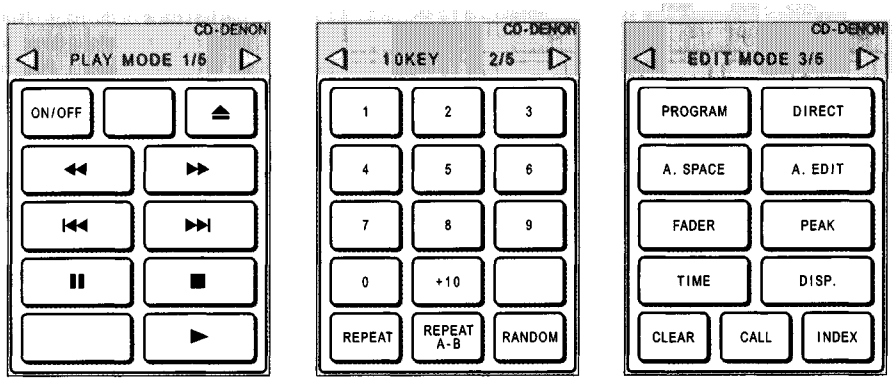
Transmission codes of independent buttons

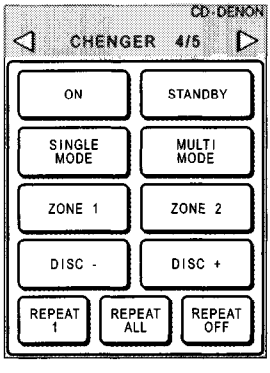


CH▲ : VCR channel
CH▼ : VCR channel
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

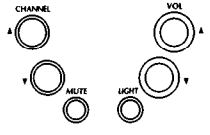
The default setting is HITACHI 1. To change the specified brand, refer to "Changing the preset memory of preset devices" on page 12.

■ DENON CD (CD player and CD changer) system buttons



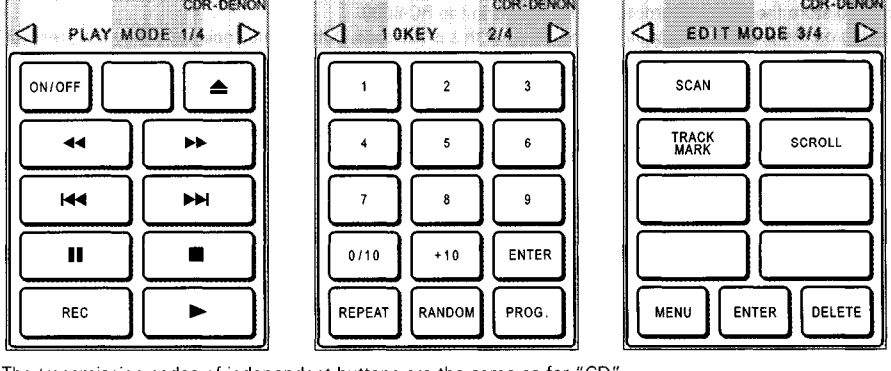


Transmission codes of independent buttons



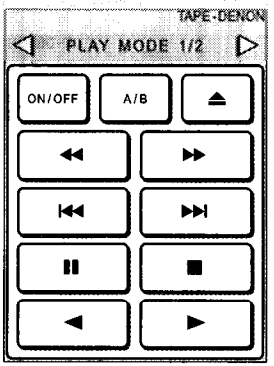
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

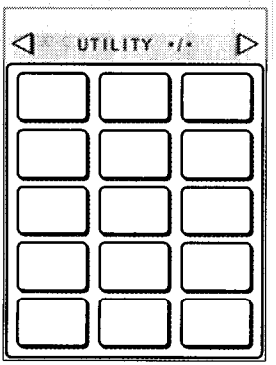
■ DENON CDR (CD recorder) system buttons



The transmission codes of independent buttons are the same as for "CD".

■ **TAPE (tape deck) system buttons**





The last page of the page display section for the various devices is a "UTILITY" page. Function buttons you want to register specially can be added to this UTILITY page.
For instructions, refer to "Learning Function" on page 18.
- There is no "UTILITY" page for "AV AMP".

The transmission codes of independent buttons are the same as for "CD".

■ **SYSTEM CALL button :** Refer to "System Call Function (page 20).

■ **SETUP button :** Refer to "Preset Memory" (see below) and "Making the Various Settings" (page 23).

※ If your device is not one of the devices set in the default settings, make the necessary changes in the preset memory before using that device.

※ Some devices have multiple Denon codes (DENON 2, etc.).
If the device does not operate with the DENON 1 codes, try changing the codes to DENON 2 or DENON 3 using the preset memory.

※ The names of buttons on the devices you are operating with the RC-8000 may differ from the names of the buttons on the RC-8000. If so, the names can be changed for greater ease using the procedure described in section "Customizing the Buttons" (see page 29).

Preset Memory

Various remote control codes are preset in the RC-8000.
If your device is one that is preset in the RC-8000, it can be operated from the RC-8000 using the preset memory.
Note that some devices and some buttons may not be operable. If this is not the case, use the learning function (see page 18) to store the device's remote control signals in the RC-8000.
Depending on the product, response may be slow. If this is the case, buttons may operate if they are pressed for a little longer than usual.

NOTE
There are no preset memory (other manufacturer) settings for the devices listed below.
For these, use the learning function to store the remote control codes of your components in the RC-8000.
① to ⑥ are supplied with Denon codes. By default, no remote control codes are set for ⑦ to ⑪.

① AV AMP (AV amplifier)
② TUNER (AM/FM)
③ RCVR (receiver)
④ TAPE (tape deck)
⑤ MD (MD player)
⑥ DAT (DAT recorder)
⑦ PROJ. (projector)
⑧ AIR (air-conditioner)
⑨ HOME
⑩ OTHER
⑪ USER

The devices and brands preset in the RC-8000 are listed on the next page (page 11).
These device types feature preset memory settings (other manufacturers codes):

① TV
② DVD (DVD player)
③ VCR (video cassette recorder)
④ CD (CD player)
⑤ CDR (CD recorder)
⑥ VDP (video disc player/LD player)
⑦ DBS (satellite broadcast receiver)
⑧ CABLE (cable TV)
⑨ LIGHT (lighting device)

DVD, CD, CDR and VDP are provided with Denon codes in addition to other manufacturers codes.
The devices and brands indicated in half-tone dot mesh on the table are preset in the RC-8000.

Device icon	Equipment	Manufacturer (codes)
	AVAMP	DENON (1)
	TUNER	DENON (1)
	TV	HITACHI (1 to 4) JVC (1 to 5) MAGNAVOX (1 to 4) MITSUBISHI (1 to 6) PANASONIC (1 to 5) PHILIPS (1 to 4) GE (1, 2) PIONEER (1 to 4) PROSCAN (1) RCA (1 to 7) SANYO (1, 2) SHARP (1 to 4) SONY (1) TOSHIBA (1 to 4)
	DVD	DENON (1, 2) PANASONIC (1) PIONEER (1 to 3) RCA (1) SONY (1) TOSHIBA (1 to 4)
	VCR	HITACHI (1 to 6) GE (1 to 3) JVC (1 to 6) MAGNAVOX (1 to 3) MITSUBISHI (1 to 6) PANASONIC (1 to 5) PHILIPS (1 to 7) PIONEER (1) RCA (1 to 8) SANYO (1 to 4) SHARP (1 to 3) SONY (1 to 3) SYLVANIA (1) TOSHIBA (1 to 3)
	MD	DENON (1)
	DAT	DENON (1)
	RCVR	DENON (1)
	AIR	
	OTHER	

Device icon	Equipment	Manufacturer (codes)
	CD	DENON (1) JVC (1 to 4) KENWOOD (1 to 5) MARANTZ (1) ONKYO (1, 2) PANASONIC (1, 2) PIONEER (1, 2) SONY (1) TECHNICS (1 to 4) YAMAHA (1, 2)
	CDR	DENON (1) DENON (2) PHILIPS (1) PIONEER (1)
	TAPE	DENON (1)
	SETUP	
	SYSTEM CALL	
	VDP	DENON (1 to 3) PIONEER (1 to 3) SONY (1)
	DBS	HITACHI (1) ECHOSTAR (1) GENERAL INSTRUMENT (1) JVC (1) MAGNAVOX (1) PANASONIC (1) PRIMESTAR (1) RADIO SHACK (1) RCA (1) SONY (1) TOSHIBA (1) UNIDEN (1) ZENITH (1)
	CABLE	HITACHI (1) GENERAL INSTRUMENT (1) MAGNAVOX (1) PANASONIC (1 to 3) PIONEER (1, 2) RADIO SHAK (1) ZENITH (1, 2)
	PROJ.	
	LIGHT	LUTRON (1)
	HOME	
	USER	

[1] Changing the preset memory of preset devices

① Touch the liquid crystal display to turn the display on.

② Press the JOG stick to display the icon display section.

③ Press the ▲ and ▼ buttons in the icon display section to display the "SETUP" icon.

a. Display the "SETUP" icon in the icon display section, then press this "SETUP" icon for at least 3 seconds to display the setup screen (a).
Press the "Edit Device" button on the "Setup 1/4" page to display the device selection screen (b).

b. Press the icon in the icon display section for the device whose preset memory you want to change to display the brand selection screen (c).

c. Use the ▲ and ▼ buttons on the brand list to display the desired brand, then press the "Brand name" button to display the code selection screen (d).

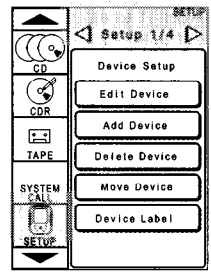
d. Select and press the code number from the code list. The transmission test screen (e) appears.

e. Press the "ON/OFF" button on the transmission test screen to check the operation of the device. (If the code is right, the power of the device you are attempting to operate should turn on and off.)
If the device has operated, press the "OK" button to select that preset memory.
If the device has not operated, press the "Cancel" button and try a different code.
If the desired preset code is not listed, press the "CANCEL" button on the code selection screen (d) then select "NONE" at the very bottom of the brand selection screen (c).
In this case the preset memory is not set.

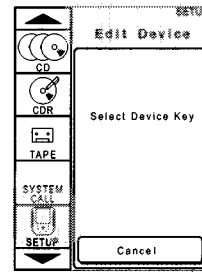
f. Once "Setup Successful" (f) appears, the preset memory is set and the device selection screen reappears.

When the "Cancel" button is pressed at the device selection screen, the setup screen reappears. Press any icon other than "SETUP" on the setup screen to cancel the setup mode and return to the transmission screen.

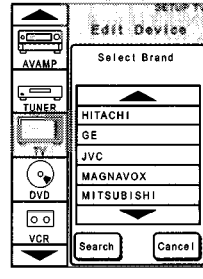
Screen (a)



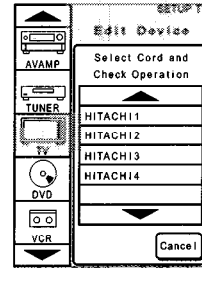
Screen (b)



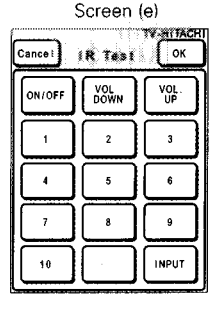
Screen (c)



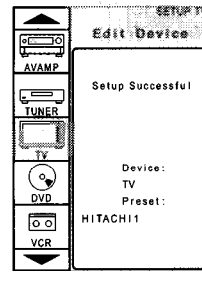
Screen (d)



Screen (e)



Screen (f)



[2] Adding new devices

a. Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen (a).
Press the "Add Device" button on the "Setup 1/4" page to display the device selection screen (b).
※ Twenty device names are displayed in alphabetical order.

b. Use the ▲ and ▼ buttons on the device list to display the desired device type, then press the "Type" button to display the brand selection screen (c).

c. After displaying the desired brand name, press the "Brand name" button to display the code selection screen (d).

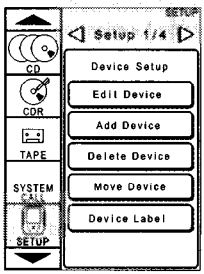
d. Select and press the code number from the code list. The transmission test screen (e) appears.

e. Press the "ON/OFF" button on the transmission test screen to check the operation of the device. (If the code is right, the power of the device you are attempting to operate should turn on and off.)
If the device has operated, press the "OK" button to select that preset memory.
If the device has not operated, press the "Cancel" button and try a different code.
If the desired preset code is not listed, press the "CANCEL" button on the code selection screen (d) then select "NONE" at the very bottom of the brand selection screen (c).
In this case the preset memory is not set.

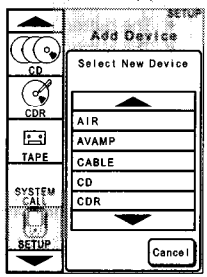
f. Once "Setup Successful" (f) appears, the preset memory is set and the device selection screen reappears.

When the "Cancel" button is pressed at the device selection screen, the setup screen reappears. Press any icon other than "SETUP" on the setup screen to cancel the setup mode and return to the transmission screen.

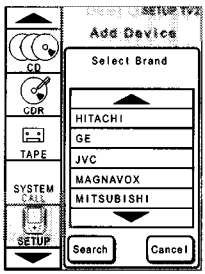
Screen (a)



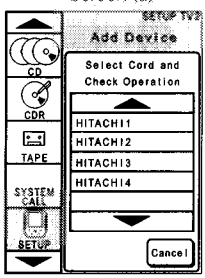
Screen (b)



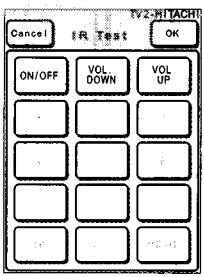
Screen (c)



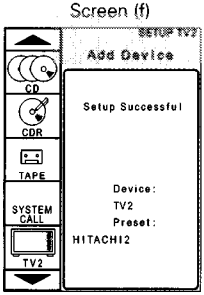
Screen (d)



Screen (e)



Screen (f)



[3] Operating devices for which the preset memory is set

For details, refer to the individual devices' operating instructions.

※ Note that some devices and some buttons may not be operable.
If this case, use the learning function to store the device's remote control signals in the RC-8000.

① Press an icon in the icon display section to select the device to be operated.
② Use the ◁ and ▷ buttons in the page display section to display the page on which the button you want to operate is located.
③ Press the button you want to operate to send its remote control signal.

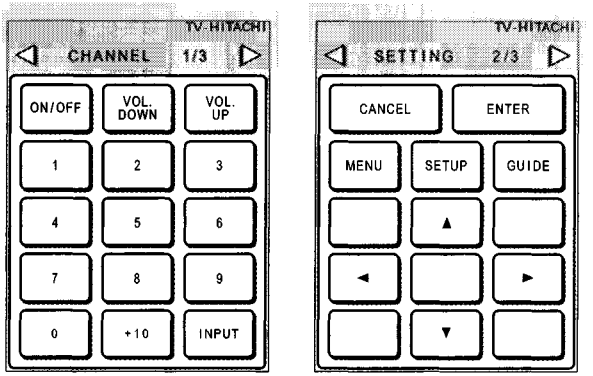
- The displayed button names are the same as the default button names.
- The button names for buttons from which signals can be transmitted are displayed in black characters.
- The button names for buttons at which no transmission codes are set are displayed in gray characters.
- No transmission codes are set for buttons which do not have button names.

NOTES:

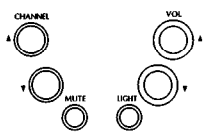
- The signals registered at the buttons (the presence or absence of transmission codes) depend on the preset code which has been set.
- If the contrast is strong, it may be difficult to read gray characters. If this is the case, adjust the contrast so that gray characters are easier to read.

※ The names of buttons on the devices you are operating with the RC-8000 may differ from the names of the buttons on the RC-8000. If so, the names can be changed for greater ease using the procedure described in section "Changing the button names" (page 30).

■ TV preset memory buttons

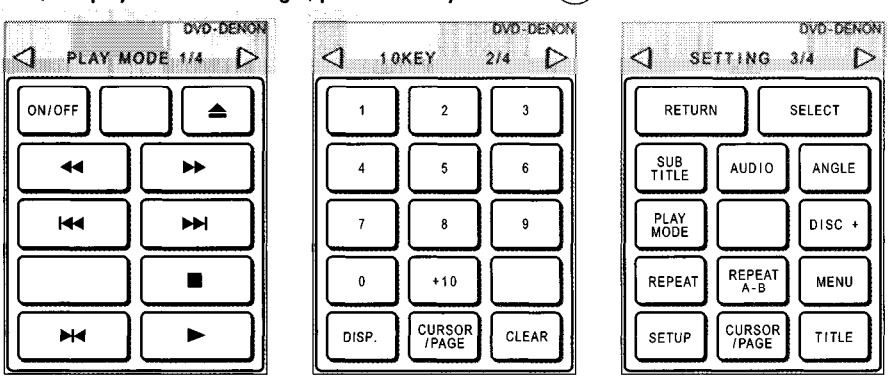


Transmission codes of independent buttons

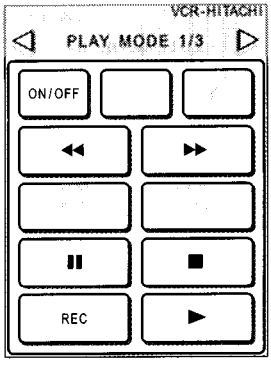


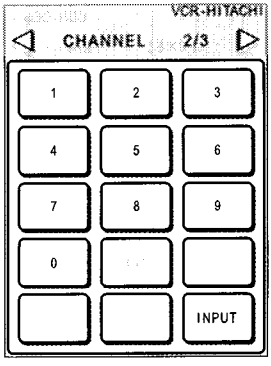
CH▲ : TV channel
CH▼ : TV channel
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

■ DVD (DVD player and DVD changer) preset memory buttons

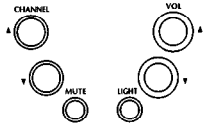


■ VCR (video cassette recorder) preset memory buttons



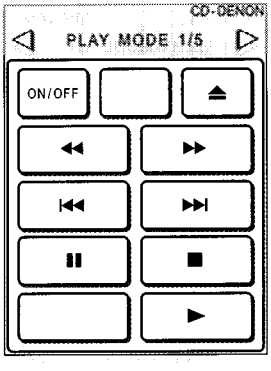


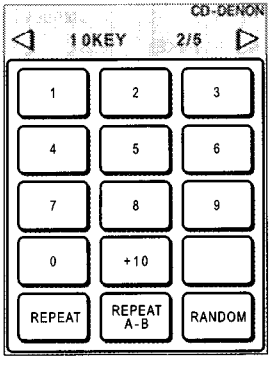
Transmission codes of independent buttons

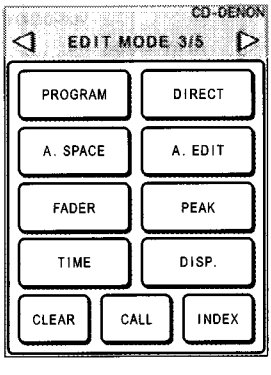


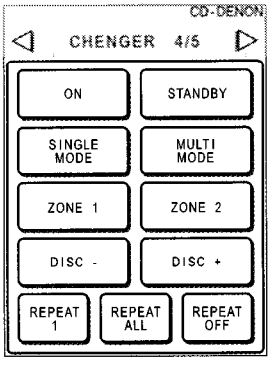
CH▲ : VCR channel
CH▼ : VCR channel
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

■ CD (CD player and CD changer) preset memory buttons

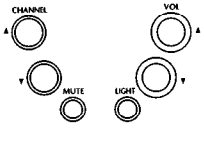






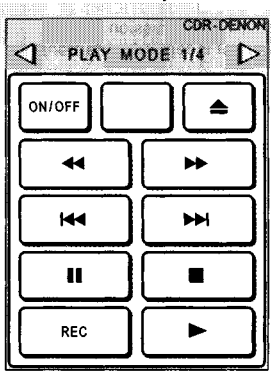


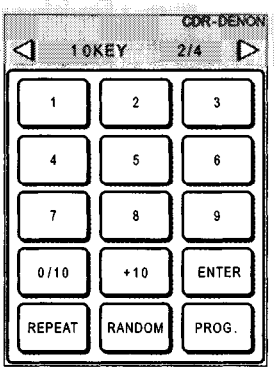
Transmission codes of independent buttons

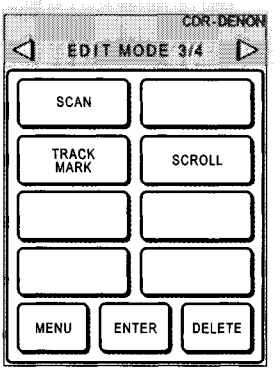


VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

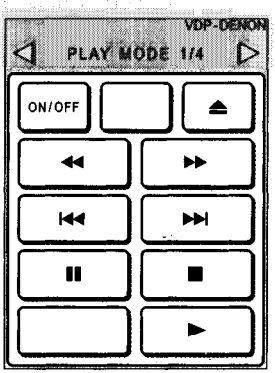
■ **CDR (CD recorder) preset memory buttons**

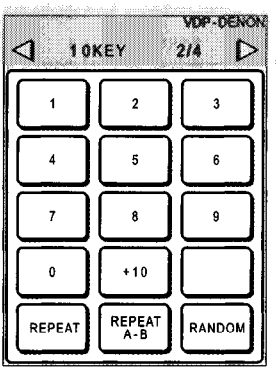


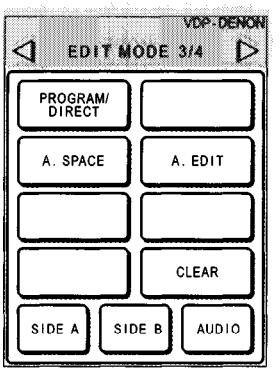




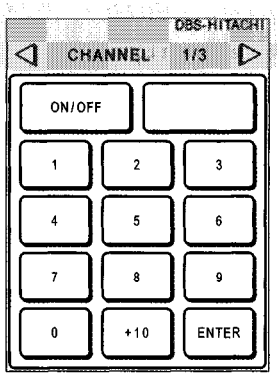
■ **VDP (video disc player) preset memory buttons**

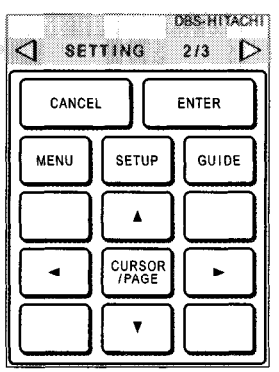




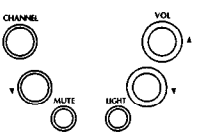


■ **DBS (satellite) preset memory buttons**



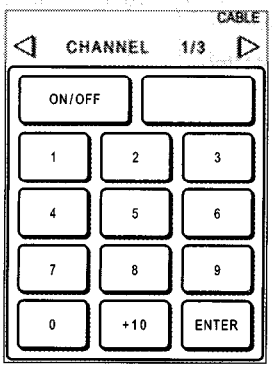


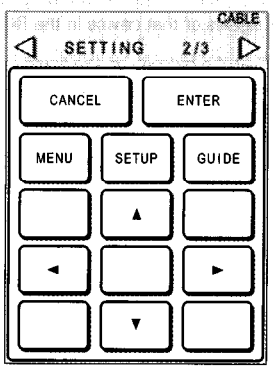
Transmission codes of independent buttons



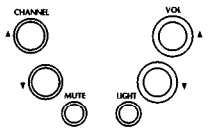
CH▲ : DBS channel
CH▼ : DBS channel
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

■ **Cable (cable TV) preset memory buttons**



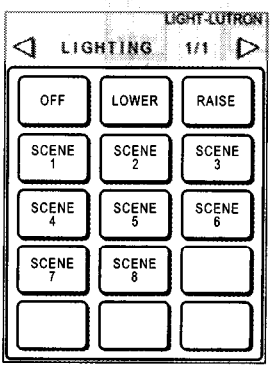


Transmission codes of independent buttons



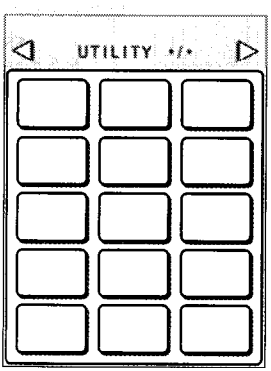
CH▲ : Cable channel
CH▼ : Cable channel
VOL▲ : Main volume of AV amplifier
VOL▼ : Main volume of AV amplifier
MUTE : Muting of AV amplifier

■ **LIGHT preset memory buttons**



The transmission codes of independent buttons are the same as for "CD".

※ A "UTILITY" page is added at the last page for the device. Buttons can be added to this page using the learning function.
Refer to the instructions on using the learning function in section to "learn" buttons. (Refer to page 18 for details.)

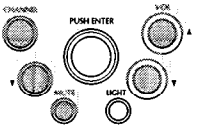


Learning Function

Devices and buttons that cannot be operated using the preset memory (for which no preset signals are stored) can be operated by storing the remote control signals of that device in the RC-8000.

- Remote control signals can be "learned" at the buttons on the liquid crystal display.
- Remote control signals can also be "learned" at the independent CH. UP and DOWN, VOL. UP and DOWN and MUTE buttons.

※ Note that remote control signals of some formats cannot be learned.



Independent buttons

[1] Using the learning function

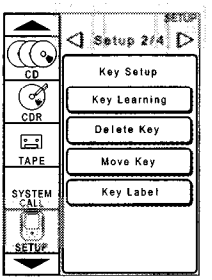
① Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "Key Learning" button on the "Setup 2/4" page to display the device selection screen.

② Press the icon in the icon display section for the device whose button(s) you want to learn to display the button selection screen.

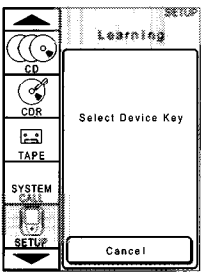
③ Use the ◁ and ▷ buttons in the page display section to display the page on which the button you want to learn is displayed.
Point the source remote control towards the RC-8000.
Press the button you want to learn on the RC-8000. The button is highlighted. Then, press the button you want to learn on the source remote control unit while the button on the RC-8000 is highlighted.

※ The display is highlighted for approximately 30 seconds.

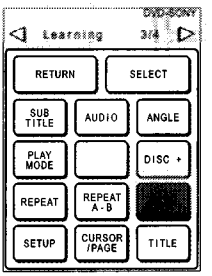
Screen ①



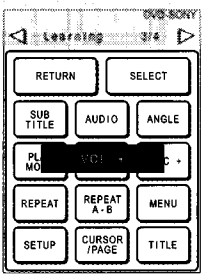
Screen ②



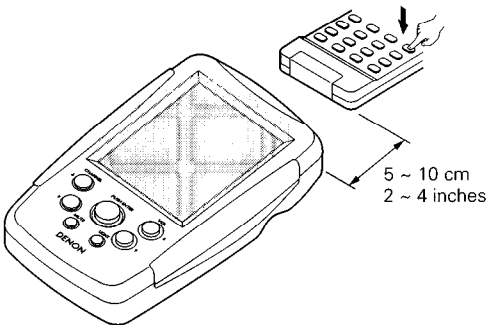
Screen ③ -1
(Liquid crystal display button)



Screen ③ -2
(Independent buttons)



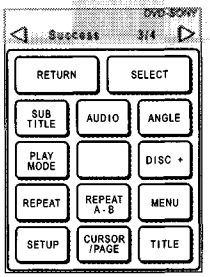
Other remote control unit



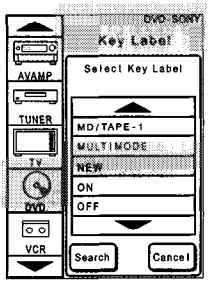
④ When learning is successful, "SUCCESS" is displayed. After this, the button name input screen ("Key Label") appears.
Button name entry will not be possible when an independent button has been used for learning.

⑤ For buttons that have default button names, the button name is displayed with a half-tone dot mesh. Press the "OK" button to set that button name and return to the device selection screen. (For buttons that do not have default button names, "NEW" is displayed. Select the desired button name from the list of button names.)

Screen ④



Screen ⑤



NOTE:
To use labels edited using manual input before learning, press the "Cancel" button at the screen on which "NEW" is displayed ⑤ to cancel.

When the "Cancel" button is pressed at the device selection screen, the setup screen reappears. Press any icon other than "SETUP" on the setup screen to cancel the setup mode and return to the transmission screen.

[2] Inputting button names

① Inputting button names using the preset names ("labels")
   a. To change the button name, use the ▲ and ▼ buttons on the list of labels at the label selection screen ("Key Label") to display the button name you wish to input from among the preset button names (preset labels).
   b. Press the button name you wish to input. That button is displayed with a half-tone dot mesh. Now press the "OK" button to set that button name.

② Inputting characters manually
   a. To input a button name other than the preset labels, use the ▲ and ▼ buttons on the label selection screen to display "NEW" (located among the preset labels).
   b. Press "NEW". The "NEW" button is displayed with a half-tone dot mesh. Now press the "NEW" button again. A cursor appears under the "N" and the manual input mode is set.
   c. Use the JOG switch's left and right buttons to move the position of the cursor in the button name.
   d. Use the JOG switch's up and down buttons to change the character at the position of the cursor.
   e. Once the name is input, press the button name's half-tone dot mesh display again. The cursor turns off and the manual input mode is cancelled.
   f. Press the "OK" button to set that button name.

List of manual input characters

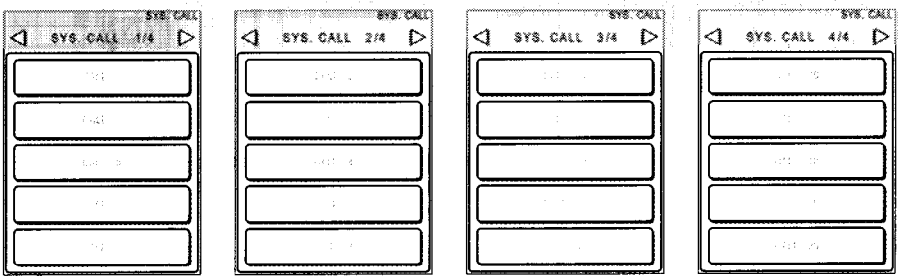
Character	Character	Character	Character	Character	Character	Character	Character
(space)	,	8	D	P	\	h	t
!	-	9	E	Q	]	i	u
"	.	:	F	R	^	j	v
#	/	;	G	S	_	k	w
$	0	<	H	T	'	l	x
%	1	=	I	U	a	m	y
&	2	>	J	V	b	n	z
'	3	?	K	W	c	o	{
(	4	@	L	X	d	p	¦
)	5	A	M	Y	e	q	}
*	6	B	N	Z	f	r	~
+	7	C	O	[	g	s	

System Call Function

The RC-8000 is equipped with a system call function for emitting a series of remote control signals by pressing a single button.
This function can be used for example to turn on the power of the amplifier, switch the amplifier's input source, turn on the power of a monitor TV, turn on the power of a DVD player, and set the DVD player to the play mode – all at the touch of a single button.

[1] System call buttons

There are 20 system call buttons.
Remote control signals for a maximum of 10 operations can be stored at each button.



[2] Storing system call signals

The following explanation uses the procedure of actually registering the following system call signals as an example.

Settings: Turn on AV amplifier power
Switch AV amplifier input to DVD
Turn on DVD player power
Set DVD player to play mode

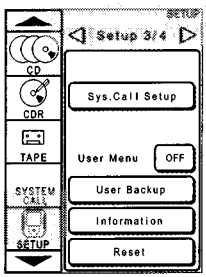
① Press "SETUP" on the icon display section for 3 seconds to display the setup screen.
Press the "Sys. Call Setup" button on the "Setup 3/4" page to display the system call selection screen.

② Press the "Add" button on the system call selection screen to set the mode for inputting buttons to be registered in the system call setting.

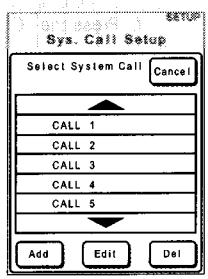
③ Select the buttons whose signals you want to store at a system call button.
The device registered at the top of the icon display section is displayed first. (By default, AV amplifier page 1 is displayed.)
Here, press the AV amplifier "ON" button and the "DVD" button.

※ To select other devices, press the JOG switch's ENTER button to display the icon display section, then select the device.

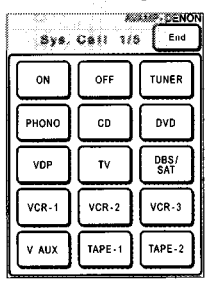
Screen ①



Screen ②



Screen ③



④ Press the ▲ and ▼ buttons in the icon display section to display the DVD icon, then press the DVD icon to select it.
Here, press the DVD "ON" and "PLAY" buttons.

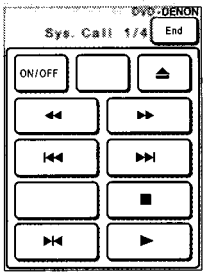
※ To select buttons on other pages, press the JOG switch's left and right buttons to switch the page.

After the buttons are registered, press the "END" button.
When the "END" button is pressed, the display switches to a confirmation screen.

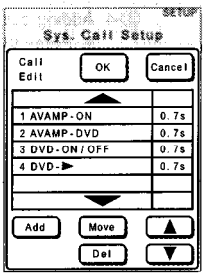
⑤ The buttons registered in steps ③ and ④ are displayed on the confirmation screen.
Press the "OK" button to register the system call settings. The system call button name switches from gray to black.
The system call signals are stored at the open system call button with the lowest number.

※ Initially they are stored at "CALL 1".

Screen ④



Screen ⑤



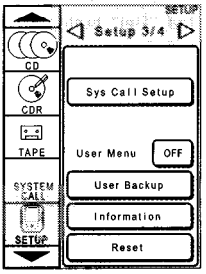
[3] Editing registered system call settings

① Press "SETUP" on the icon display section for 3 seconds to display the setup screen.
Press the "Sys. Call Setup" button on the "Setup 3/4" page to display the system call selection screen.

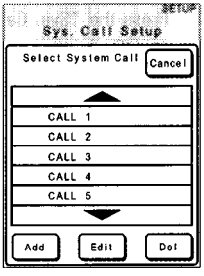
② Press the ▲ and ▼ buttons on the call list to display the system call button you want to edit.
Press the system call button you want to edit so that it is displayed in half-tone dot mesh, then press the "EDIT" button to set the system call edit mode.

③ Editing system call settings
③-1 Changing the delay time
By default, the delay time is set to 0.7 seconds.
The delay time can be changed to anything between 0 and 10 seconds in steps of 0.1 second.
The delay times at the right of the buttons indicate the time from which the signal for that button is sent until the signal for the next button is sent.
a. Press the button on the system call editing screen's button list whose delay time you want to change so that it is displayed in half-tone dot mesh.
b. Press the ▲ and ▼ buttons at the bottom right of the editing screen to set the desired delay time.

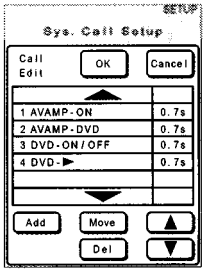
Screen ①



Screen ②



Screen ③



③-2 Deleting buttons
a. At the system call editing screen, press the button you want to delete so that it is displayed in half-tone dot mesh.
b. Press the "Del" button. The setting is deleted.

③-3 Changing the order of buttons
a. At the system call editing screen, press the button you want to move so that it is displayed in half-tone dot mesh.
b. Press the "Move" button, then press the button at the position to which you want to move the first button. The first button is inserted at the position before the second button.

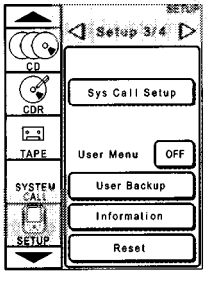
③-4 Adding buttons
a. Press the "Add" button at the system call editing screen to set the mode for registering buttons to be added.
※ Refer to "Storing system call signals" (page 20).
b. Buttons registered at this time are added after already registered buttons.

[4] Deleting registered system call settings

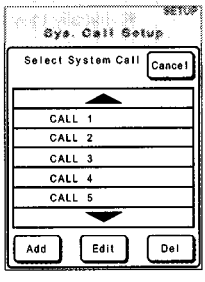
① Press "SETUP" on the icon display section for 3 seconds to display the setup screen.
Press the "Sys. Call Setup" button on the "Setup 3/4" page to display the system call selection screen.

② Press the ▲ and ▼ buttons on the call list to display the system call button whose settings you want to delete.
Press the system call button whose settings you want to delete so that it is displayed in half-tone dot mesh, then press the "Del" button. The system call setting is deleted.

Screen ①

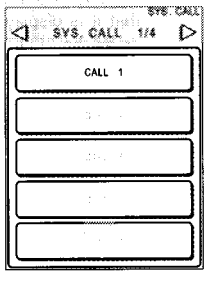


Screen ②



[5] Sending system call signals

Press the "Sys. Call" icon in the icon display section to display the system call sending screen.
Use the ◁ and ▷ buttons in the page display section to display the page containing the system call button whose signals you want to send.
Press the system call button.
System call buttons at which remote control signals are stored are displayed in black. Those at which no remote control signals are stored are displayed in gray.



[6] Changing the system call button names

① Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "Sys. Call Setup" button on the "Setup 3/4" page to display the system call selection screen.
② Press the system call button whose name you want to change. The button switches to a half-tone dot mesh.
Press the same button again. A cursor appears under the "C" in the button's name, indicating that the input mode is set.
③ Input the name using the procedure described in section "Inputting button names" (page 19).
④ Once the name is input, press the system call button again. The cursor turns off and the system call button name is changed.

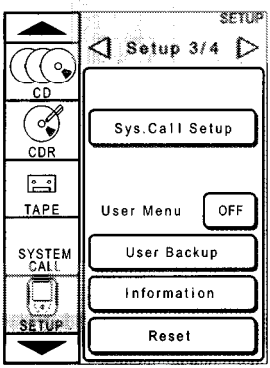
Up to 15 characters can be input for system call button names.

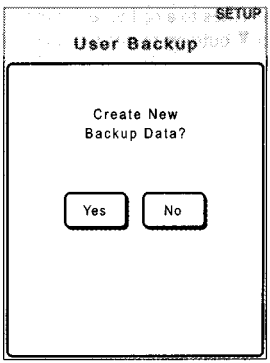
Making the Various Settings

[1] Backing up the current settings

With the RC-8000, the current settings can be backed up.
When you back up the settings, the settings are not lost even when the RESET button (page 4) is pressed or the batteries are replaced.

Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "User Backup" button on the "Setup 3/4" page to display the confirmation screen, then press the "Yes" button. The current settings of the RC-8000 are backed up.

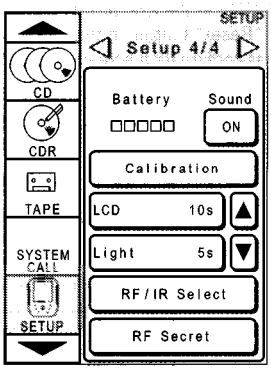




[2] Making the sound settings

Here, set the sound that is made when buttons are pressed. (By default, this is set to "ON".)
When this is set to "ON", a sound is produced each time a button is operated. When set to "OFF", no sound is produced when buttons are pressed.

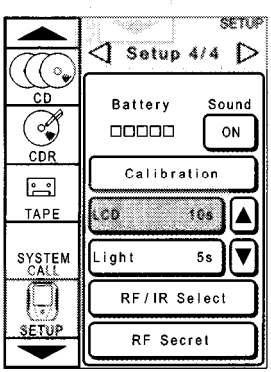
Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "Sound ON" button on the "Setup 4/4" page to switch the setting to "OFF".
The display changes each time the button is pressed. The displayed setting is the current setting.



[3] Setting the liquid crystal display's auto off time

With the RC-8000, the liquid crystal display automatically turns off if no buttons are pressed within a specific amount of time.
To make the batteries last longer, we recommend that you do not set this time any longer than necessary.

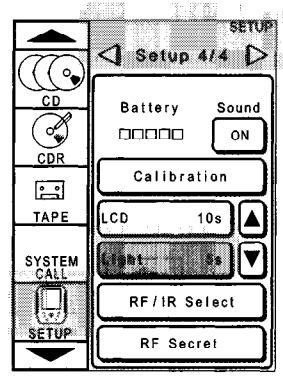
Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "LCD 10s" button on the "Setup 4/4" page. The button switches to a half-tone dot mesh.
Now use the ▲ and ▼ buttons to set the auto off time. The time can be set between 1 and 60 seconds in steps of 1 second.



[4] Setting the back light's auto off time

With the RC-8000, the back light automatically turns off if no buttons are pressed within a specific amount of time.
To make the batteries last longer, we recommend that you do not set this time any longer than necessary.

Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen. Press the "Light 5s" button on the "Setup 4/4" page. The button switches to a half-tone dot mesh. Now use the ▲ and ▼ buttons to set the auto off time. The time can be set between 0 and 300 seconds in steps of 1 second. When set to "0", the back light remains lit, even when the LIGHT button is pressed.

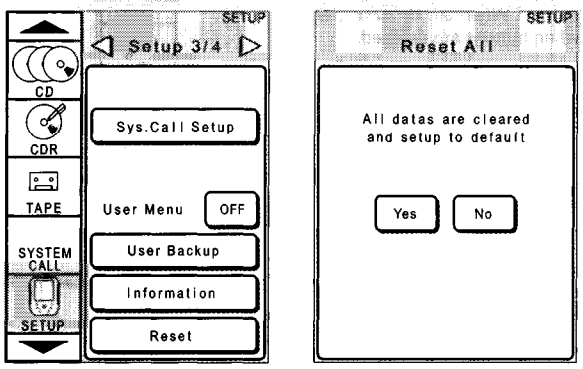


※ It is not possible to set the back light auto off time to a time longer than the liquid crystal display's auto off time.
※ When performing the system setup procedure for Denon AV receivers, set the LCD's auto off time to a long time before operating.

Resetting

The reset function resets all the settings to the factory defaults.

a. Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Reset" button on the "Setup 3/4" page to display the reset confirmation screen.
b. At the reset confirmation screen, press the "Yes" button. The RC-8000 is reset.



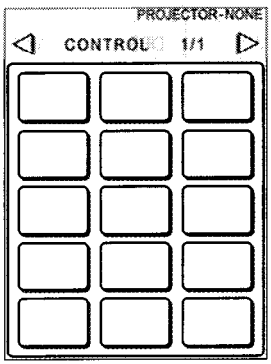
NOTE:
Note that when the above operation is performed, the data backed up in section "Backing up the current settings" (page 23) is also deleted and the RC-8000 can no longer be restored to the customized settings.

5 OTHER REGISTERABLE DEVICES

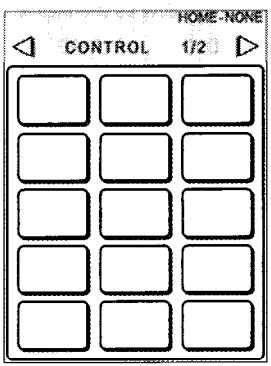
The devices shown below can also be registered.
There is no preset memory for these additional devices. Use the learning function to store their signals.

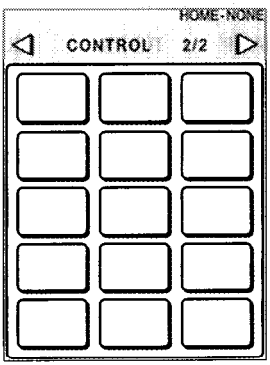
NOTE:
For "AIR" (air-conditioner), some air-conditioner remote control signals include time and temperature data sent along with the control codes, so they may not work properly when they are "learned" in the RC-8000.

■ **PROJECTOR**

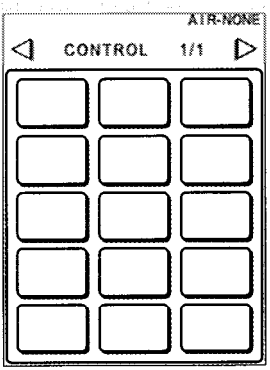


■ **HOME**

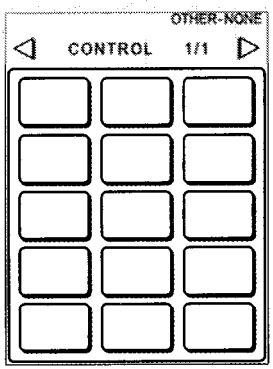




■ **AIR**



■ **OTHER**

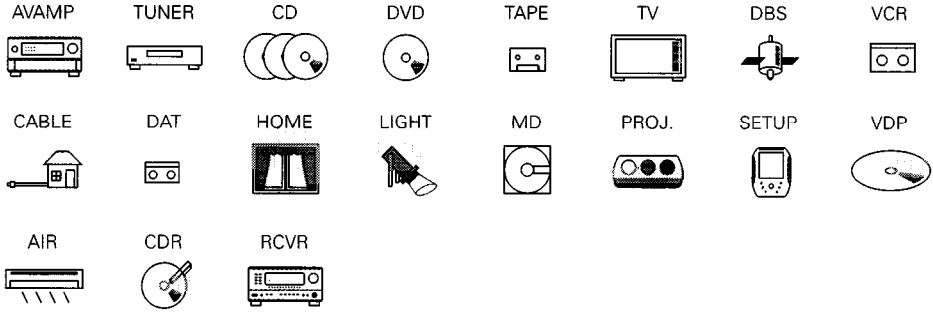


6 Customizing (setting the operating environment)

Editing the Icon Display Section

With the RC-8000, a total of up to 23 devices to be operated can be registered.
Up to 8 devices of the same type can be registered.
Icons for the registered devices are displayed in the icon display section. If more than one device of the same type is registered, the devices are identified by numbers. (For example: CD2)
The types (categories) of registerable devices and their icons are shown below.
There are no icons for "USER" or "OTHER".

Registerable devices and their icons



[1] Adding devices

For instructions on adding new devices, refer to section "Adding new devices" on page 13.
For types of devices for which there is no preset memory, the preset memory selection screen is not displayed, but the device can be added.

[2] Deleting devices

Use the procedure described below to delete devices that have been added.

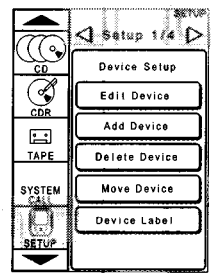
① Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Delete Device" button on the "Setup 1/4" page to display the device selection screen.

② Use the ▲ and ▼ buttons in the icon display section to display the icon for the device you want to delete, then press that icon to display the delete confirmation screen.

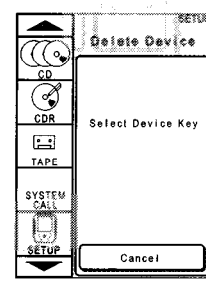
③ Press the "Yes" button to delete that device. The icon for the deleted device disappears from the icon display section.

※ "SYSTEM CALL" and "SETUP" cannot be deleted.

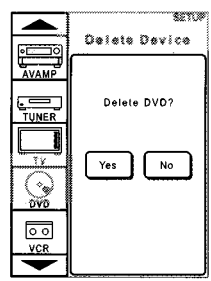
Screen ①



Screen ②



Screen ③



[3] Changing the positions of devices in the icon display section

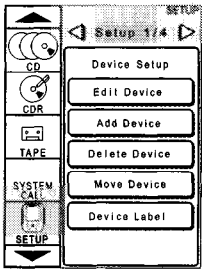
Use the procedure described below to change the order of the devices displayed in the icon display section.

① Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Move Device" button on the "Setup 1/4" page to display the device selection screen.

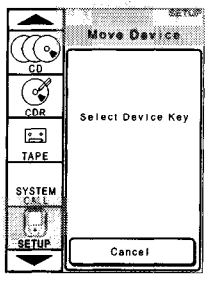
② Use the ▲ and ▼ buttons in the icon display section to display the icon for the device you want to move, then press that icon.

③ Press the icon at the position to which you want to move the first icon. A confirmation screen appears. Press the "Yes" button. The first icon is inserted at the position before the second icon.

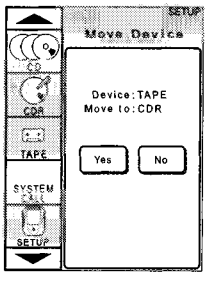
Screen ①



Screen ②



Screen ③



[4] Registering device names

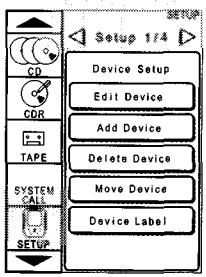
Use the procedure described below to register names, etc., for registered devices.

① Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Device Label" button on the "Setup 1/4" page to display the device selection screen.

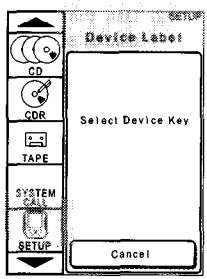
② Use the ▲ and ▼ buttons in the icon display section to display the icon for the device for which you want to register a device name, etc., then press that icon.

③ Input the device name, etc.
"_" (under bar) is displayed at the left edge. The place where this is displayed can be edited.
For instructions on inputting the device name, etc., refer to section "Inputting button names" on page 19.
Once the device name, etc., has been input, press the "OK" button to register that device name.

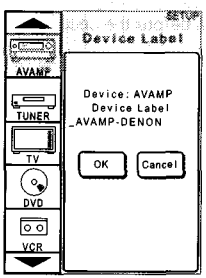
Screen ①



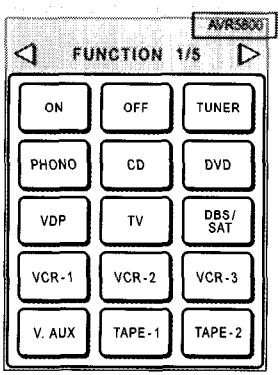
Screen ②



Screen ③



Registered device names are displayed as shown below.
Up to 16 characters can be input for device names.



Customizing the Buttons

[1] Adding buttons

"Learn" buttons to add them.
Refer to section "Using the learning function" on page 18.

[2] Deleting buttons

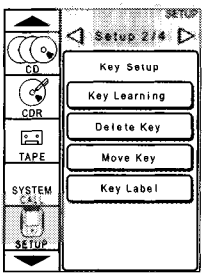
① Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Delete Key" button on the "Setup 2/4" page to display the device selection screen.

② Use the ▲ and ▼ buttons in the icon display section to display the icon for the device with the button you want to delete, then press that icon. The button selection screen appears.

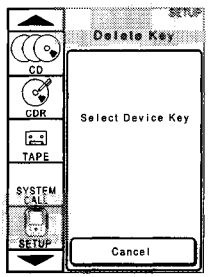
③ Use the ◁ and ▷ buttons in the page display section to display the page containing the button you want to operate, then press the button you want to delete. A confirmation screen appears.

④ Press the "OK" button. The button name is deleted, and the remote control signals are also deleted.
(The button itself remains.)

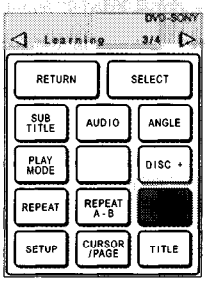
Screen ①



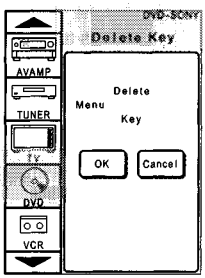
Screen ②



Screen ③



Screen ④



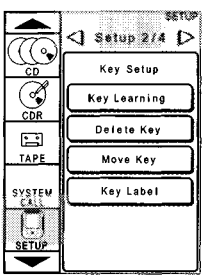
[3] Moving buttons

Use the procedure described below to move the positions of buttons with screens for specific devices.

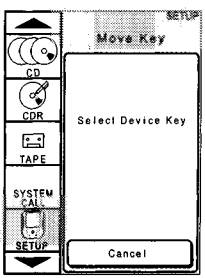
① Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Move Key" button on the "Setup 2/4" page to display the device selection screen.

② Use the ▲ and ▼ buttons in the icon display section to display the icon for the device with the button you want to move, then press that icon. The button selection screen appears.

Screen ①



Screen ②

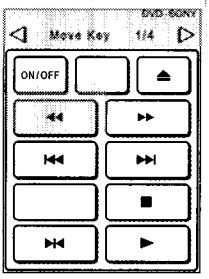


③ Use the ◁ and ▷ buttons in the page display section to display the page containing the button you want to move, then press that button.

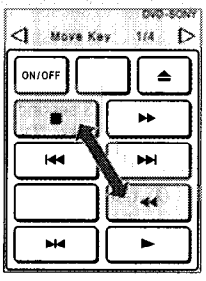
④ Now press the button at the position to which you want to move the first button. The buttons automatically switch places.

※ It is not possible to move small buttons to the positions of large buttons and vice versa.
※ Buttons cannot be moved to pages of other devices.

Screen ③



Screen ④



[4] Changing button names

① Press "SETUP" in the icon display section for at least 3 seconds to display the setup screen. Press the "Key Label" button on the "Setup 2/4" page to display the device selection screen.

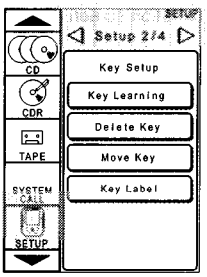
② Use the ▲ and ▼ buttons in the icon display section to display the icon for the device with the button whose name you want to change, then press that icon. The button selection screen appears.

③ Use the ◁ and ▷ buttons in the page display section to display the page containing the button whose name you want to change, then press that button. The character input screen appears.

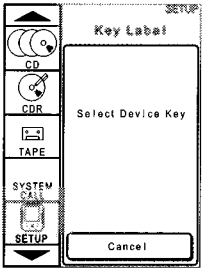
④ Input the button name.
For instructions on inputting button names, refer to "Inputting button names" (page 19).

※ Up to 2 lines of 6 characters can be input for small buttons, and up to 2 lines of 8 characters can be input for large buttons.

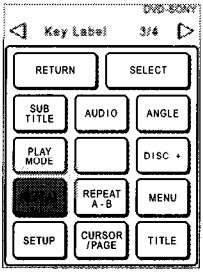
Screen ①



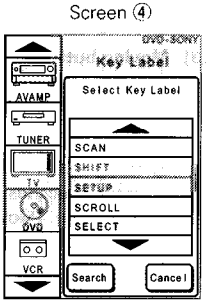
Screen ②



Screen ③



Screen ④

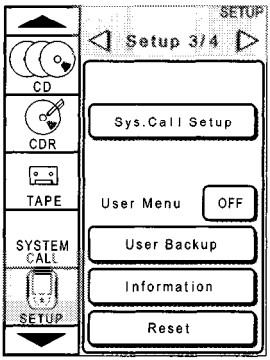


User Menu

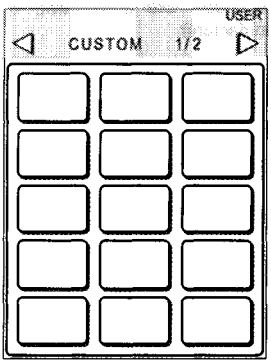
When "USER" is registered in the icon display section and the "User Menu" is set, the user screen ("CUSTOM 1/2") always appears when the liquid crystal display is redisplayed.
"Learn" buttons that are frequently used at the user menu to eliminate the trouble of searching for buttons and make operation easier.

① Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "User Menu OFF" button on the "Setup 3/4" page to set this to "ON". When this is done, the user menu is always displayed when the liquid crystal display is redisplayed.
The setting switches between "ON" and "OFF" each time the button is pressed.

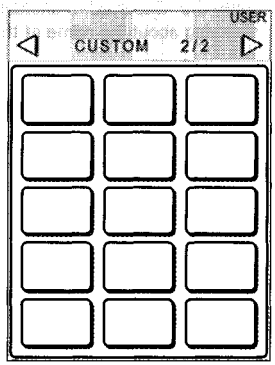
Screen ①



USER screen (1)



USER screen (2)



This setting cannot be made unless "USER" is registered in the icon display section.

7 ONE-BUTTON SEARCH FUNCTION

Try using this function if you cannot find the desired remote control signals with the normal preset memories.

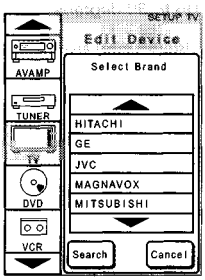
[1] Using the one-button search function

Learn the "POWER" button of the remote control unit for which you want to set the preset memory in order to search for the preset memory for those remote control signals.

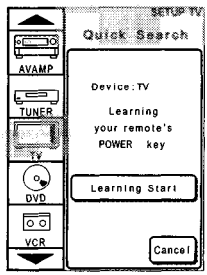
① At the "Edit Device" and "Add Device" brand selection screens when setting the preset memory in section "Changing the preset memory of preset devices" on page 12, press the "Search" button to display the learning start screen.

② Press the "Learning Start" button on the learning start screen, then press the "POWER" button of the remote control unit for which you want to set the preset memory to learn it.

Screen ①

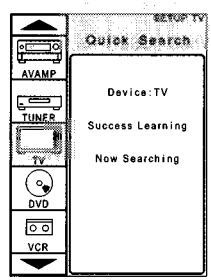


Screen ②



③ Once the button is successfully learned, the preset memory search operation starts.
Once the search operation is successfully completed, a list of the preset memory codes is displayed.
Select the code and check that the device operates properly.
Continue the procedure as described in section "Changing the preset memory of preset devices" on page 12.

Screen ③



NOTES:

- If the corresponding preset memory is not found with the search operation, "NONE" is set automatically.
- A manufacturer (brand) other than the manufacturer (brand) of your remote control unit may be displayed. If the remote control unit works with the displayed manufacturer's codes, use it as such, without worrying about the name of the manufacturer.

[8] RF TRANSMISSION FUNCTION

RF transmission is possible when the RC-8000 is used in combination with the separately sold RC-8001ST charger base station.
For instructions, refer to the RC-8001ST's operating instructions.

[9] FACTORY DEFAULT SETTINGS

Registered device:	AVAMP, TUNER, TV, DVD, VCR, CD, CDR, TAPE, SYS. CALL, SETUP
LCD off (LCD) time:	10 seconds
Back light off (Light) time:	5 seconds
Sound setting (Sound):	ON

[10] SPECIFICATIONS

Dimensions:	96 mm (width) x 38 mm (height) x 168.5 mm (depth) (3-25/32" x 1-1/2" x 6-41/64")
Mass:	242 g (8.5 oz) (not including batteries)
Battery service life:	Approx. 3 months (under standard usage conditions)
Distance:	Approximately 7 meters (22 feet)
Angle:	Up to 30 degrees
Accessories:	LR6 (AA size) alkaline batteries . . . .4 Operating instructions . . . . . .1 Service station list . . . . . .1 Warranty * 1

* When the RC-8000 is acquired as an accessory inculded with the AVR-5800, there is no separate warranty for the RC-8000. (The warranty is only for the AVR-5800.)

✻ For purposes of improvement, specifications and design are subject to change without notice.

11 CAUTIONS ON USE

■ **Place of use**
Do not drop or subject to strong shocks. Doing to could result in damage.

■ **Handling**
The touch panel (display) is made of glass. Do not apply pressure to it, drop the set, lean on the touch panel with your elbows or place heavy objects on it. Doing so could break the touch panel and the fragments of glass could cause injury.

■ **Cleaning**
Use a soft cloth to wipe dirt off the touch panel (display), the surface of the case and the buttons. Do not use thinner, benzene, alcohol, etc., as they could damage the surface.

12 TROUBLESHOOTING

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.
Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures
Operation is not possible.	• The unit is too far from the amplifier.	• Move the unit closer to the amplifier (within 7 meters) when operating it.
	• There is an obstacle between the unit and the amplifier.	• Remove the obstacle.
	• The amplifier's power is not on.	• Turn on the amplifier's power.
	• The transmitter is not pointed at the amplifier.	• Point the transmitter at the amplifier.
	• There is an inverter type fluorescent light near the unit or the amplifier.	• Move the unit and the amplifier away from the fluorescent light.
	• You are using products of other brands.	• Depending on the manufacturer and type of product, it may not be possible to operate product with this unit.
Liquid crystal display does not turn on.	• The panel is turned off.	• Touch the touch panel or press the LIGHT button. If LCD is still not displayed, press the RESET button. (See page 4.)
	• The brightness is not properly set.	• Refer to "Adjusting the brightness of the liquid crystal display" (see page 4) and adjust the brightness of the liquid crystal display.
Touch panel cannot be operated accurately.	• Touch panel adjustment is off.	• Adjust the touch panel. (See page 5.)

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14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011, JAPAN
Telephone: (03) 3584-8111

Printed in Japan 511 3672 003

This warranty will be honored only in the U.S.A.

DENON®
LIMITED WARRANTY

Length of Warranty

This warranty on your DENON audio product which is distributed and warranted by DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) DEALER.

Product Category		
Compact System	*(G)*	*1 year*
AM FM Hi-Fi Radio	*(DT)*	*1 year*
Portable CD Player	*(DCP)*	*1 year*
Remote Controls	*(RC)*	*90 days*
Headphones	*(AH)*	*90 days*

What is Covered

Except as specified below, this Warranty covers all defects in material and workmanship in this product. The following are not covered by the Warranty: (1) Any product which is not distributed in the U.S.A. by DENON ELECTRONICS (2) Any product which is not purchased in the U.S.A. from an authorized DENON dealer, unless the product is purchased through the U.S.A. Military Exchange Service where the Warranty will be One (1) year for all products listed above except in the case of Cartridges which will remain at 90 days. (Note: AUTHORIZED DENON DEALERS can be identified by DENON AUTHORIZED DEALER sticker displayed in the stores. If you are uncertain as to whether a dealer is a DENON AUTHORIZED DEALER, please contact DENON as listed below.) (3) Any product on which the serial number has been defaced, modified or removed. (4) Damaged deterioration or malfunction resulting from: a) Accident, act of nature, abuse, misuse, neglect, unauthorized product repair or modification or failure to follow instructions supplied with the product. b) Repair or attempted repair by anyone not authorized by DENON. c) Any shipment of the product (claim must be presented to carrier). (5) Items subject to wear from normal usage (tape heads, cartridges, stylus, battery, etc.). (6) Periodic check-ups which do not disclose any defect. (7) Use of the product outside the U.S.A. (8) Damaged magnetic tape or CD discs. (9) Use in industrial, commercial, and/or professional applications.

What We Will Pay For

If during the applicable warranty period from date of original consumer purchase your DENON audio product is found to be defective by DENON, DENON will repair, or at its option, replace with new, used or equivalent model, such defective product without charge for parts or labor.

How to Obtain Warranty Performance

If your unit ever needs service, it may be taken or shipped to any authorized DENON service station or DENON ELECTRONICS (if you are uncertain as to whether a service station is DENON authorized, please contact DENON as listed below.). If you have any special difficulties in transporting your unit, please advise us and we may, at our option, make special arrangements with you. In all other cases, the following procedures apply whenever your unit must be transported for warranty service;

a. You are responsible for transporting your unit or arranging for its transportation.
b. If shipment of your unit is required;
   i. You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.
   ii. All products must be shipped in their original cartons or in replacement cartons supplied by us. If you no longer have the original cartons when service is required, please contact DENON ELECTRONICS for assistance.
c. **WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES SLIP MUST BE ATTACHED.**
d. You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem. In the case of a Compact Disc Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN THE U.S.A. ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This Warranty gives you specific legal rights, but you may also have other rights which vary from state to state.

DENON® ELECTRONICS,
a Division of DENON Corporation (U.S.A.)

Service Department
222 New Road
Parsippany, N.J. 07054

Mar. 1996
Printed in Japan
5150503203

DENON® ELECTRONICS, a Division of DENON Corporation (U.S.A.)

Mailing address only: DENON ELECTRONICS,
P.O. Box 5370
Parsippany, N.J. 07054-5370

DENON

DENON ELECTRONICS,
222 New Road
Parsippany, N.J. 07054
(973) 396-7499
(888) 544-8434 FAX

DENON ELECTRONICS,
13825 Cerritos Corporate Dr., Suite B,
Cerritos, CA 90703-2456
(562) 565-1730
(562) 565-1740 FAX

DENON REGIONAL SUPER SERVICE CENTERS (Repair only — No parts orders please)

PYRAMID AUDIO
8711 Burnett Rd.
Building F, Suite 65
Austin, TX. 78758
(512) 458-8292
(512) 453-4542 FAX

UNITED RADIO
2949 Erie Boulevard East
Syracuse, N.Y. 13224
(315) 446-8700
(315) 446-8505 FAX

AUDIO SERVICES
544 Central Dr., Suite 101
Virginia Beach, VA 23454
(757) 498-8277
(757) 498-9554 FAX

ELECTRO SERVICES
2144 Columbia Avenue
Lancaster, PA 17603
(717) 397-0509
(717) 397-9565 FAX

INNER SOUND
1818 S.E. Division St.
Port land, OR 97202
(503) 238-1955
(503) 238-1787 FAX

DENON SERVICE NETWORK/ 服務網絡

- **Please contact one of our overseas service centers, listed below, for follow-up service consultation.**
- **Wenden Sie sich für anfallende Wartungs-bzw. Reparaturarbeiten bitte an eine der folgend aufgeführten Kundendienststellen.**
- **Adressez-vous à nos centres de service d'outre-mer indiqués ci-dessous, pour le service après-vente.**
- **Per il servizio dopo vendita rivolgete Vi al nostro centro di servizio estero appropriato della lista seguente.**
- **Para consultas de servicio porfavor dirigirse a cualquiera de nuestros centros de servicio en el extranjero, enlistados abajo.**
- **Neem kontakt op met één van onze reparatie-inrichtingen in het buitenland, waarvan hier een lijst volgt, voor na-service.**
- **Ta kontakt med nedan angivna servicecentraler för rådfrågning om servicearbeten efter försäljningen.**
- **Favor contactar um de nossos centros de serviços internacionais, abaixo listados, para consulta de serviços de acompanhamento.**
- **請據下表所列本公司海外服務中心查詢售后服務事宜。**

Australia	AWA Audio Products Pty Ltd. 67 O'Riordan Street, Alexandria NSW 2015, Australia Tel: (02) 9669-3477 Fax: (02) 9578-0140
Austria	Digital-Professional-Audio Vertriebsges.m.b.H., 1170 Wien, Rupertusplatz 3 Tel: 0222-4501006~9, Fax: 0222-457679
Belgium	Transtel-Sabima P.V.B.A. Harmoniestraat 13, 2018 Antwerpen 1, België Tel: 03-237-3607
Canada	Denon Canada Inc. 17 Denison Street, Markham Ontario, Canada L3R 1B5 Tel: 905-475-4085 Fax: 905-475-4159
China	Shanghai Denon Products Service Co., Ltd. Room 1504, A Building 527 Huaihai Zhong Road, Shanghai 200020, P.R.C. Tel: 86-21-5306-2078 Fax: 86-21-5306-0620 中國遠望機電技術發展中心（北京天龍特約維修中心）北京東直門內大街92號 郵編：100007 電話：（10）64015151/64023798 傳真：（10）64034229 天龍音響上海特約技術維修服務中心 上海金沙江路253號 郵編：200062 電話： 86-21-6257-9958 傳真: 86-21-6260-5645
Czecho	EUROSTAR OSTORAVA s.r.o. areal Vodni stavby Praha a.s., budova A2 Dobronicka 635,148 00 Praha 4 Czech Rep. Tel: 02-6111-2901 Fax: 02-6111-2904
Denmark	Hifi Klubben A/S Dali Alle 1, 9610 Noerager, Denmark Tel: 45-96 72 10 00 Fax: 45-96 72 10 14
Finland	Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 0644401
France	Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: 44-89-68-69
F.R. Germany	Denon Electronic GmbH An der Landwehr 19, 41334 Nettetal Tel: +49 2157 12 08 78 Fax: +49 2157 12 08 13
Greece	KINOTECHNIKI LTD. 14, PYRGOU STR. 166 75, GLYFADA ATHENS Tel: 01-96-01-071 Fax: 01-96-01-72
Hong Kong	DENON ASIA COMPANY LTD. 18/F No.79 Chatham Road South, Tsimshatsui Kowloon, Hong Kong Tel: 852-2516-6862, Fax: 852-2516-5940 天龍音響(亞洲)有限公司 香港九龍尖沙咀漆咸道南七十九號十八樓 電話：852-2516-6862 傳真：852-2516-5940
Hungary	InfoVox Ltd. Terez krt. 31, 1067 Budapest Hungary Tel / Fax: 01-302-2515
Iceland	Japis Ltd. Brautarholt 2, P.O.Box 396, 121 Reykjavik, Iceland Tel: 354-58009-800 Fax: 354-5800-888
Indonesia	PT Autoaccindo Jaya. Cideng Barat No. 7 Jakarta, Indonesia Tel: 633-2730
Italy	Audiodelta S.r.l.19 Via Pietro Calvi 20129 Milan Italy Tel: 39-02-5411-6008 / 39-02-5412-8253 Fax: 39-02-5518-1961
Korea	SAM WON KOREA Co., Ltd. 1F, SANG-ROCK BLDG, #1629-3 SEOCHO-DONG, SEOCHO-KU, SEOUL 137-070, KOREA Tel: 02-521-1404 Fax: 02-3486-2135
Malaysia	HWEE SENG (ELECTRONICS) SDN BHD. 13-1, Jalan Raja Laut, 50350 Kuala Lumpur Malaysia Tel: 60-3443-1193 Fax: 60-3441-0563
Mexico	Labrador, S.A. de C.V. Zamora No. 154 Col. Condesa 06140 Mexico, D.F. Tel: 286 55 09 Fax: 286 34 62
Netherlands	Penhold B.V. Poppenbouwing 58, NL-4191 NZ Geldermalsen, Netherland Tel: 31-345-588 080 Fax: 31-345-588 085
New Zealand	Avalon Audio Corpn. Limited 630B Great South Road Ellerslie Auckland, New Zealand Tel: 64-9-579-1280 Fax: 64-9-579-3350
Norway	Hi-Fi Klubben AS Sandakerveien 64 0483 Oslo Tel: 47 22 79 66 66 Fax: 47 22 79 66 67
Poland	HORN DISTRIBUTION S.A. Ulica Kurantow 34, 02-873 Warszawa Poland Tel: +48 22 649 30 71 Fax: +48 22 649 31 99
Portugal	Videoacustica Qta. Do Paizinho-Armazém 5-Estrada De Circunvalação-Apart. 3127 1303 Lisboa Codex Tel: (01)417-00-04/00-96 Fax: (01)418-80-93
Singapore	Hwee Seng (Electronics) Pte Ltd. 81 Genting Lane #02-02, Everich Industrial Building Singapore 349566 Tel: 65-746-3355 Fax: 65-743-1704
South Africa	Mandarin Distributors S.A. 10 Thora Crescent, Wynberg Ext.3 Sandton, P.O.Box 5137, Johannesburg Republic of South Africa Tel: 27-11-444-8445 Fax: 27-11-444-8363
Spain	Gaplasa S.A.AV. Ing. Conde de Torroja, 25, 28022 Madrid Tel: 91-329-29-60 Fax: 91-329-16-75
Sweden	Sveriges Hi-Fi Klubb Box 5116, S-402 23 Göteborg Tel: 031-200040
Switzerland	Diethelm & Co., AG. Grindelstrasse 5, 8303 Bassersdorf Tel: 01-306-1611 Fax: 01-306-1690
Taiwan R.O.C.	Taiwan Kolin Co., Ltd. 10th Fl., 86, Sec. 1, Chung-king S. Rd., Taipei, Taiwan R.O.C. Tel: 886-2-2314-1459 Fax: 886-2-2314-8521
進口廠商	KOLIN歌林股份有限公司 台北市重慶南路一段86號10樓 電話：886-2-2314-1459 傳真：886-2-2314-8521
Thailand	Mahajak Development Co., Ltd. 46 Mahajak Building, Sukhumvit Soi 3 (Nana-Nua) Klongtoey, Bangkok Thailand. 10110 Tel: 66-2-256-0020 Fax: 66-2-253-1696
United Kingdom & Eire	Hayden Laboratories Ltd. Hayden House, Chiltern Hill, Chalfont St Peter, Gerrards Cross, Bucks, SL9 9UG Tel: 01753-888447 Fax: 01753-880109
U.S.A.	DENON ELECTRONICS, a Division of Denon Corporation (U.S.A.) 222 New Road Parsippany, NJ07054, U.S.A., Tel: 973-396-7499, Fax: 888-544-8434

* If there is no service center in your local area, consult the outlet where the equipment was purchased.
* Falls sich in Ihrer Nähe keine Kundendienststelle befindet, wenden Sie sich an das Geschäft, wo das Gerät gekauft wurde.
* S'il n'y a aucun centre de service dans votre région, consultez votre revendeur.
* Se nella Vostra zona non c'è il centro di servizio, rivolgete Vi al negozio dove avete acquistato l'apparecchio.
* Si no hay centros de servicio en su área local, consulte en donde haya comprado su equipo.
* Als er in uw streek geen reparatie-inrichting is, neemt u kontakt op met de vestiging waar u de apparatuur gekocht heeft.
* Saknas servicecentral i närheten där du bor, bör kontakt tas medåterförsäljaren för apparaten.
* Se não existir um centro de serviços em sua área local, consulte o estabelecimento onde o equipamento foi adquirido.
* 若當地無服務中心，可向你購入本機的商號查詢。

H91117

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011, JAPAN
Telephone: (03) 3584-8111

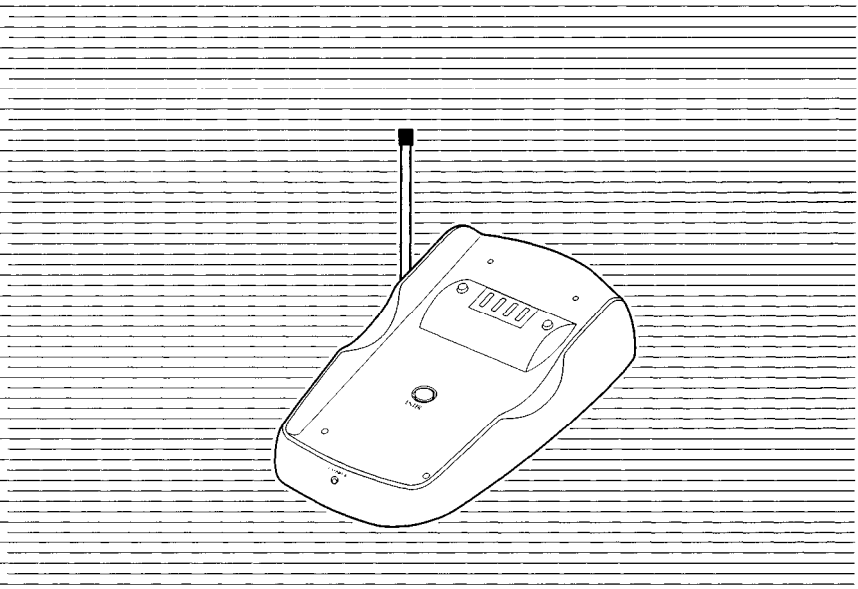
Printed in Japan 515 0867 004 ■ 000

DENON

CHARGER BASE STATION

RC-8001ST

OPERATING INSTRUCTIONS
MODE D'EMPLOI



"SERIAL NO. _____"

PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

"NO. DE SERIE _____"

PRIERE DE NOTER LE NUMERO DE SERIE DE L'APPAREIL INSCRIT A L'ARRIERE DU COFFRET DE FAÇON A POUVOIR LE CONSULTER EN CAS DE PROBLEME."

■ **We greatly appreciate your purchase of this unit.**
■ **To be sure you take maximum advantage of all the features this unit has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.**

FCC DECLARATION OF CONFORMITY

Type of equipment	: Charger Base Station
Model	: RC-8001ST
Manufacturer's authorized representative	: DENON ELECTRONICS, a Division of Denon Corporation (U.S.A.) 19 Chapin Road, Pine Brook NJ07058 U.S.A., Tel: 973-396-0810

TABLE OF CONTENTS

1 Features 2
2 Before Using 2
Loading the included nickel cadmium battery . 2
3 Names of Parts 3
4 Connecting to Other Devices 3, 4
5 Operation 5, 6
6 Specifications 6

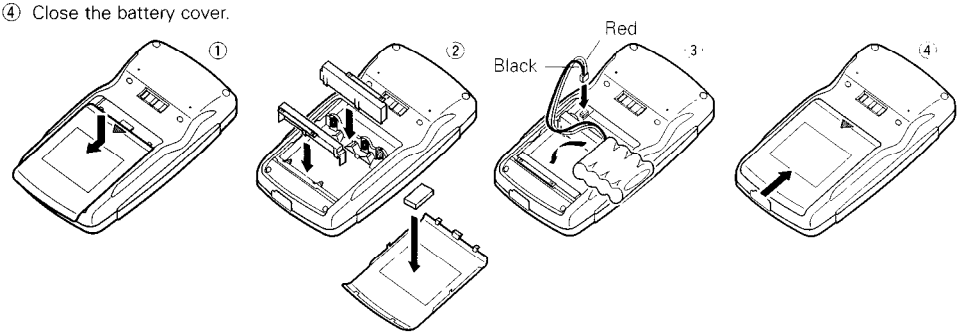
1 FEATURES

- RF reception and conversion to infra-red emitter output, when used in combination with the RC-8000 RF control is possible only when the RC-8001ST is used in combination with the RC-8000.
- Charging function (only when the RC-8000 and RC-8001ST are used in combination) The RC-8000 can be charged on the RC-8001ST only when using the included nickel cadmium battery pack. Do not attempt to charge the RC-8000 with alkaline baatteries installed, as battery leakage and overheating will occur, possibly damaging the unit

2 BEFORE USING

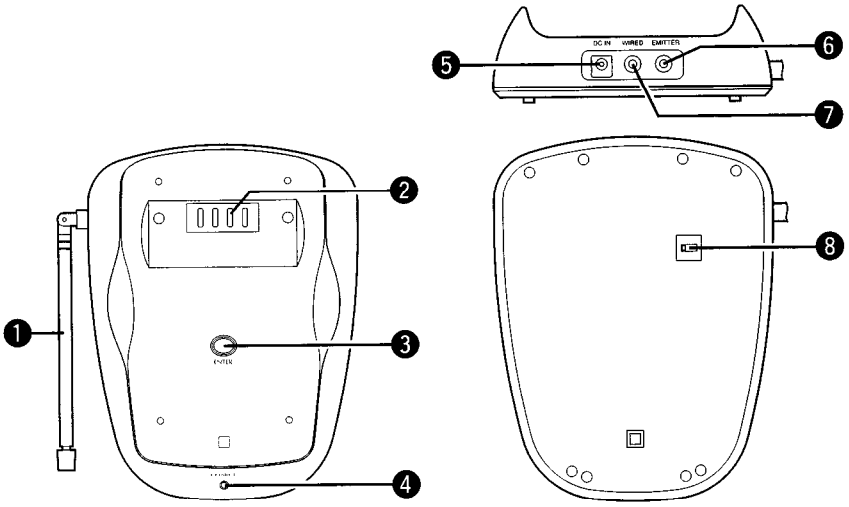
Loading the included nickel cadmium battery

The supplied nickel cadmium battery is exclusively for use with the separately sold RC-8000 remote control transmitter.
Use the procedure described below to load the included nickel cadmium battery in the RC-8000
① Slide the battery cover on the rear of the RC-8000 to remove it
② Mount the battery holder, then stick the included spacer within the frame on the rear of the battery cover
③ Insert the nickel cadmium battery supplied with the RC-8001ST, then connect the connector
④ Close the battery cover.



NOTE:
Do not charge the included nickel cadmium rechargeable battery pack with anything but the RC-8001ST
Also, do not use the RC-8001ST to charge anything but the included nickel cadmium rechargeable battery pack

3 NAMES OF PARTS



❶ Antenna
❷ Charging contacts
❸ ENTER button
❹ Charging indicator ("CHARGE")
❺ DC IN terminal
❻ EMITTER terminal
❼ WIRED terminal
❽ RF frequency select switch

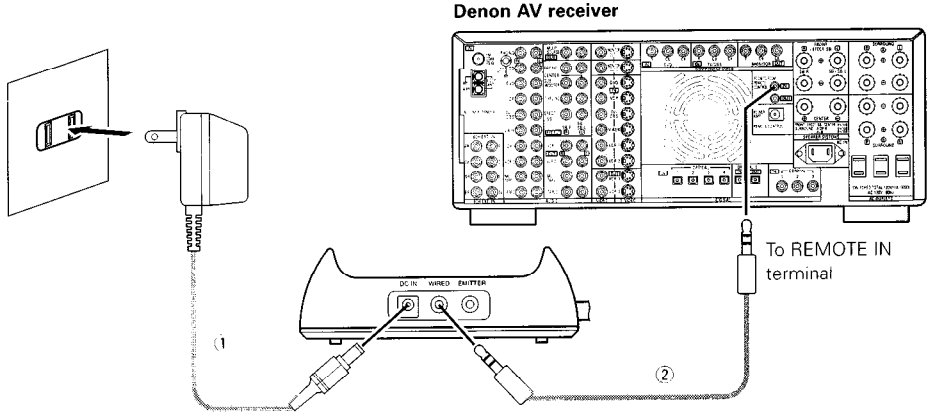
4 CONNECTING TO OTHER DEVICES

Connecting to a Denon AV Receiver

Use the procedure described below to connect the RC-8001ST to a Denon AV receiver equipped with a REMOTE IN terminal

(1) Connect the included AC adapter to a wall power outlet, then connect the power cord to the RC-8001ST's DC IN terminal

(2) Using the supplied connection cord, connect the RC-8001ST's WIRED terminal to the receiver's REMOTE IN terminal

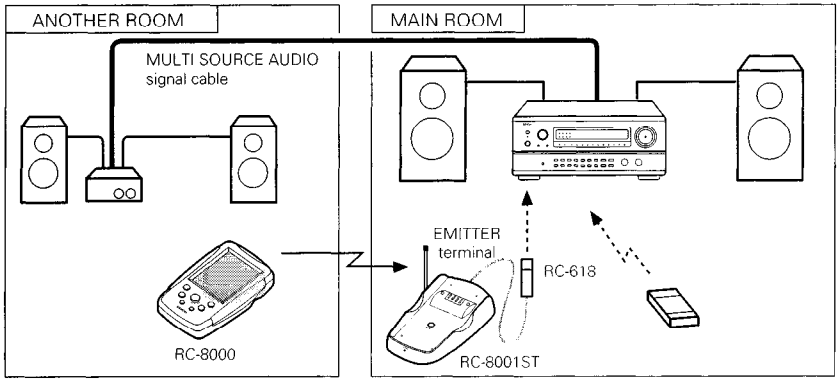


Connecting to Other Devices

Use the procedure described below to connect the RC-8001ST to a Denon device not equipped with a REMOTE IN terminal or to other devices.

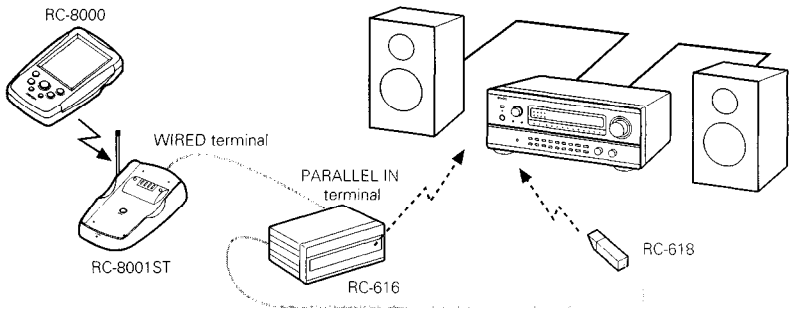
① Connect the included AC adapter to a wall power outlet, then connect the power cord to the RC-8001ST's DC IN terminal.

② Connect a commercially available IR emitter (a Denon RC-618 for example) to the RC-8001ST's EMITTER terminal, then place the IR emitter near the device's remote control receiver in a position in which reception is possible



Connecting Using a Denon RC-616

The following shows an example for controlling multiple devices using a Denon RC-616 powered emitter



5 OPERATION

About the RF Transmission Function

RF transmission is possible when the RC-8001ST is used in combination with the RC-8000 (included with the AVR-5800 or sold separately) remote control transmitter.
With this function it is possible to operate your components from another room in your home, or to operate your components if they are in an enclosed cabinet not conveniently nearby, etc.

Procedure for RF Transmission

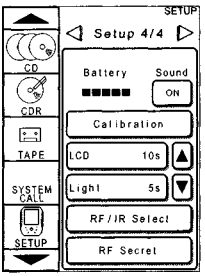
To conduct RF transmission, change the setting of the RC-8000 remote control transmitter to RF using the procedure described below

① Press the "SETUP" icon in the icon display section for at least 3 seconds to display the setup screen.
Press the "RF/IR Select" button on the "Setup 4/4" page to display the RF/IR selection screen

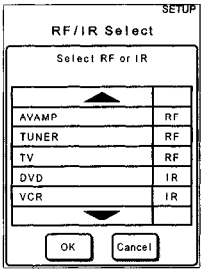
② Use the ▲ and ▼ buttons on the device name list to display the device for which you want to perform RF transmission
Press the icon for that device to switch the setting from IR to RF
Press the "OK" button to complete the setting and return to the setup screen.

※ The setting switches between RF and IR each time the button is pressed while it is displayed with a half-tone dot mesh.

Screen ①



Screen ②

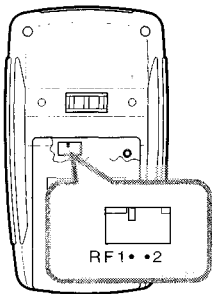


At the setup screen, press the icon for the device set to RF to display the remote control signal transmission screen and perform RF transmission.

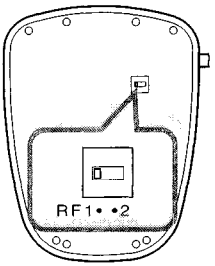
RF Transmission Frequency

Interference may cause operation to be unstable when conducting RF transmission.
In such cases, change the RF transmission frequency
When changing the RF transmission frequency, set the RC-8001ST and the RC-8000 remote control transmitter to the same position (RF 1 or 2)

RC-8000



RC-8001ST



RF Secret Number

When using the RF transmission function with multiple pairs of RC-8000 and RC-8001ST, inadvertent operations could occur if the same RF transmission frequency is shared.
If so, set different RF secret numbers for the different pairs.

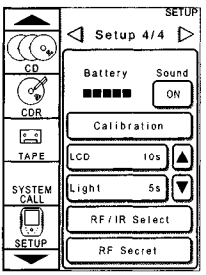
Registering secret numbers

① Press the "SETUP" icon in the RC-8000's icon display section for at least 3 seconds to display the setup screen.
Press the "RF Secret" button on the "Setup 4/4" page to display the RF secret number registration screen.

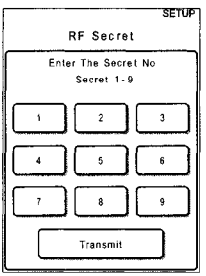
② Press the number buttons on the RF secret number registration screen to register that number in the RC-8000.
The selected number is highlighted.

③ While pressing the ENTER button on the RC-8001ST, press the "Transmit" button on the RC-8000. The number registered in the RC-8000 is registered in the RC-8001ST as well, then the setup screen reappears

Screen ①



Screen ②



Charging Function

The RC-8000's nickel cadmium battery can be charged by placing the RC-8000 on the RC-8001ST.
Charge the battery pack if "LOW BATTERY" appears on the remote control unit's display.
Be sure to charge the nickel cadmium rechargeable battery pack for about 8 hours before connecting it to the remote control unit and using it to power the remote control unit.
During charging, the charging indicator ("CHARGE") lights. The indicator turns off once charging is completed.
Approximately 8 hours (at 70 mA) are required to charge the nickel cadmium battery

6 SPECIFICATIONS

Rechargeable battery:	4.8 V nickel cadmium rechargeable battery pack (included with RC-8001ST)
Dimensions:	132 mm (width) x 42 mm (height) x 160 mm (depth) (5-13/64" x 1-21/32" x 6-19/64")
Mass:	170 g (6 oz)
Accessories:	Nickel cadmium battery pack... .... 1 AC adapter (AA-25) .... 1 Connection cord..... .... .1 Battery holder .. ..2 Operating instructions..... .... 1 Warranty * .. . . . . 1 Service station list . . . . .. .1 Spacer 1

* When the RC-8001ST is acquired as an accessory included with the AVR-5800, there is no separate warranty for the RC-8001ST (The warranty is only for the AVR-5800)

✻ For purposes of improvement, specifications and design are subject to change without notice.

RECYCLING NICKEL-CADMIUM BATTERIES

Ni-Cd

NICKEL-CADMIUM BATTERIES MUST BE RECYCLED OR DISPOSED OF PROPERLY.
Nickel-cadmium cells are used in the battery pack. Please take your used nickel-cadmium battery packs to a store that recycles nickel-cadmium batteries.

Cautions:
- Use the specified battery pack.
- Never throw the battery into a fire, disassemble it, or heat it
- Do not remove or damage the battery casing

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011, JAPAN
Telephone: (03) 3584-8111

Printed in Japan 511 3687 001

This warranty will be honored only in the U.S.A.

DENON®
LIMITED WARRANTY

Length of Warranty

This warranty on your DENON audio product which is distributed and warranted by DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) DEALER.

Product Category			
Turntables	*(1) Autolift*	*(DP-L)*	*4 years*
	(2) Full Automatic	*(DP-F)*	*2 years*
Tuners, Integrated Amplifiers		*(TU, PMA)*	*3 years*
Preamps, Digital Preamps, Poweramps, Head Amplifiers		*(PRA, AVP, DAP, POA, HA)*	*3 years*
Digital Surround Decoder		*(AVD)*	*3 years*
A/V Controllers, A/V Receivers, AM/FM Receivers		*(AVC, AVR, DRA)*	*2 years*
Compact Disc Players, Laser Disc Players, DVD Players		*(DCD, DCM, DP, DA, LA, DVD)*	*1 year*
Tape Recorders, Digital Audio Tape Recorders, Minidisc Recorders		*(DRM, DRR, DRS, DRW, DTR, DMD)*	*1 year*
Karaoke Systems		*(DCG, HMA)*	*1 year*
Cartridges, Accessories		*(DL, AU)*	*90 days*

What is Covered

Except as specified below, this Warranty covers all defects in material and workmanship in this product. The following are not covered by the Warranty: (1) Any product which is not distributed in the U.S.A. by DENON ELECTRONICS (2) Any product which is not purchased in the U.S.A. from an authorized DENON dealer, unless the product is purchased through the U.S.A. Military Exchange Service where the Warranty will be One (1) year for all products listed above except in the case of Cartridges which will remain at 90 days. (Note: AUTHORIZED DENON DEALERS can be identified by DENON AUTHORIZED DEALER stickers displayed in the stores. If you are uncertain as to whether a dealer is a DENON AUTHORIZED DEALER, please contact DENON as listed below.) (3) Any product on which the serial number has been defaced, modified or removed. (4) Damaged deterioration or malfunction resulting from: a) Accident, act of nature, abuse, misuse, neglect, unauthorized product repair or modification or failure to follow instructions supplied with the product. b) Repair or attempted repair by anyone not authorized by DENON. c) Any shipment of the product (claim must be presented to carrier). (5) Items subject to wear from normal usage (tape heads, cartridges, stylus, battery, etc.). (6) Periodic check-ups which do not disclose any defect. (7) Use of the product outside the U.S.A. (8) Damaged magnetic tape or CD discs. (9) Use in industrial, commercial, and/or professional applications.

What We Will Pay For

If during the applicable warranty period from date of original consumer purchase your DENON audio product is found to be defective by DENON, DENON will repair, or at its option, replace with new, used or equivalent model, such defective product without charge for parts or labor.

How to Obtain Warranty Performance

If your unit ever needs service, it may be taken or shipped to any authorized DENON service station or DENON ELECTRONICS (if you are uncertain as to whether a service station is DENON authorized, please contact DENON as listed below.). In all other cases, the following procedures apply whenever your unit must be transported for warranty service:

a. You are responsible for transporting your unit or arranging for its transportation.

b. If shipment of your unit is required;
You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.

c. **WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES SLIP MUST BE ATTACHED.**

d. You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem. In the case of a Compact Disc Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN THE U.S.A. ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This Warranty gives you specific legal rights, but you may also have other rights which vary from state to state.

Jun. 1997
Printed in Japan
515 0817 009

DENON® ELECTRONICS, a Division of DENON Corporation (U.S.A.)

Mailing address only: DENON ELECTRONICS,
P.O. Box 5370
Parsippany, N.J. 07054-5370

DENON

DENON ELECTRONICS,
222 New Road
Parsippany, N.J. 07054
(973) 396-7499
(888) 544-8434 FAX

DENON ELECTRONICS,
13825 Cerritos Corporate Dr., Suite B,
Cerritos, CA 90703 2456
(562) 565-1730
(562) 565-1740 FAX

DENON REGIONAL SUPER SERVICE CENTERS (Repair only -- No parts orders please)

PYRAMID AUDIO
8711 Burnett Rd.
Building F, Suite 65
Austin, TX. 78758
(512) 458-8292
(512) 453-4542 FAX

UNITED RADIO
2949 Erie Boulevard East
Syracuse, N.Y. 13224
(315) 446-8700
(315) 446-8505 FAX

AUDIO SERVICES
544 Central Dr., Suite 101
Virginia Beach, VA 23454
(757) 498-8277
(757) 498-9554 FAX

ELECTRO SERVICES
2144 Columbia Avenue
Lancaster, PA 17603
(717) 397-0509
(717) 397-9565 FAX

INNER SOUND
1818 S.E. Division St.
Port land, OR 97202
(503) 238-1955
(503) 238-1787 FAX

DENON SERVICE NETWORK/ 服務網絡

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- **Favor contactar um de nossos centros de serviços internacionais, abaixo listados, para consulta de serviços de acompanhamento.**
- **請據下表所列本公司海外服務中心查詢售后服務事宜。**

Australia	Audio Products Australia Pty Ltd. 67 O'Riordan Street, Alexandria NSW 2015, Australia Tel: (02) 9669-3477 Fax: (02) 9578-0140
Austria	Digital-Professional-Audio Vertriebsges.m.b.H., 1170 Wien, Rupertusplatz 3 Tel: 0222-4501006~9, Fax: 0222-457679
Belgium	Transtel-Sabima P.V.B.A. Harmoniestraat 13, 2018 Antwerpen 1, België Tel: 03-237-3607
Canada	Denon Canada Inc. 17 Denison Street, Markham Ontario, Canada L3R 1B5 Tel: 905-475-4085 Fax: 905-475-4159
China	中國遠望機電技術發展中心（北京天龍特約維修中心）北京，東城區，建國門內東總布胡同28號 郵編：100005 電話：（010）64064558 傅真：（010）64015151 天龍音響上海特約技術維修服務中心 上海金沙江路253號 郵編：200062 電話： 86-21-6257-9958 傅真： 86-21-6260-5645
Czecho	EUROSTAR OSTORAVA s.r.o. areal Vodni stavby Praha a.s., budova A2 Dobronicka 635,148 00 Praha 4 Czech Rep. Tel: 02-6111-2901 Fax: 02-6111-2904
Denmark	Hifi Klubben A/S Dalı Alle 1, 9610 Noerager, Denmark Tel: 45-96 72 10 00 Fax: 45-96 72 10 14
Finland	Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 09 25 30 36 12
France	Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: 44-89-68-69
F.R. Germany	Denon Electronic GmbH An der Landwehr 19, 41334 Nettetal Tel: +49 2157 12 08 78 Fax: +49 2157 12 08 13
Greece	KINOTECHNIKI LTD. 14, PYRGOU STR. 166 75, GLYFADA ATHENS Tel: (01)960-1071 Fax: (01)960-1072
Hong Kong	DENON ASIA COMPANY LTD. Suite 501, Ocean Centre, Harbour City, Canton Road, Tsimshatsui Kowloon, Hong Kong Tel: 852-2516-6862, Fax: 852-2516-5940 天龍音響(亞洲)有限公司 香港九龍尖沙咀 廣東道海港城海洋中心5樓501室 電話：852-2516-6862 傅真：852-2516-5940
Hungary	InfoVox Ltd. Terez krt. 31, 1067 Budapest Hungary Tel / Fax: 01-302-2515
Iceland	Japis Ltd. Brautarholt 2, P.O.Box 396, 121 Reykjavik, Iceland Tel: 354-58009-800 Fax: 354-5800-888
Israel	Newpan Ltd. 14 Rosansky st. Rishon Lezion 75706. Tel: 03-9535900 Fax: 03-9616193
Indonesia	PT Autoaccindo Jaya. Cideng Barat No. 7 Jakarta, Indonesia Tel: 633-2730
Italy	Audiodelta S.r.l.19 Via Pietro Calvi 20129 Milan Italy Tel: 39-02-5411-6008 / 39-02-5412-8253 Fax: 39-02-5518-1961
Korea	SAM WON KOREA Co., Ltd. 1F, SANG-ROCK BLDG, #1629-3 SEOCHO-DONG, SEOCHO-KU, SEOUL 137-070, KOREA Tel: 02-521-1404 Fax: 02-3486-2135
Malaysia	HWEE SENG (ELECTRONICS) SDN BHD. 13-1, Jalan Raja Laut, 50350 Kuala Lumpur Malaysia Tel: 60-3-4041-8422 Fax: 60-3-4041-0563
Mexico	Labrador, S.A. de C.V. Callejon del Naranjo 35, Naucalpan, 53560, Edo. Mex., Mexico Tel: 52-5359-5161 Fax: 52-5357-1775
Netherlands	Penhold B.V. Poppenbouwing 58, NL-4191 NZ Geldermalsen, Netherland Tel: 31-345-588 080 Fax: 31-345-588 085
New Zealand	Avalon Audio Corpn. Limited 630B Great South Road Ellerslie Auckland, New Zealand Tel: 64-9-579-1280 Fax: 64-9-579-3350
Norway	Hi-Fi Klubben AS Sandakerveien 64 0483 Oslo Tel: 47 22 79 66 66 Fax: 47 22 79 66 67
Poland	HORN DISTRIBUTION S.A. Ulica Kurantow 34, 02-873 Warszawa Poland Tel: +48 22 649 30 71 Fax: +48 22 649 31 99
Portugal	Videoacustica Qta. Do Paizinho-Armazém 5-Estrada De Circunvalação-Apart. 3127 1303 Lisboa Codex Tel: (01)417-00-04/00-96 Fax: (01)418-80-93
Singapore	Hwee Seng (Electronics) Pte Ltd. 81 Genting Lane #02-02, Everich Industrial Building Singapore 349566 Tel: 65-746-3355 Fax: 65-743-1704
South Africa	Mandarin Distributors S.A. 10 Thora Crescent, Wynberg Ext.3 Sandton, P.O.Box 5137, Johannesburg Republic of South Africa Tel: 27-11-444-8445 Fax: 27-11-444-8363
Spain	Gaplasa S.A.AV. Ing. Conde de Torroja, 25, 28022 Madrid Tel: 91-329-29-60 Fax: 91-329-16-75
Sweden	Sveriges Hi-Fi Klubb Box 5116, S-402 23 Göteborg Tel: 031 33 51000
Switzerland	KOENIG APPARATE AG, Abteilung Elektronik. Eggbühlstrasse 28, CH-8052 Zürich, Switzerland Tel: 01-306-1626 Fax: 01-306-1690
Taiwan R.O.C.	KOLIN-DENON ENTERTAINEMENTY INC. 5th FL.,NO.63, Po-Ai Road, Taipei, Taiwan, R.O.C. Tel: (02)2381-5876 Fax: (02)2381-5811
進口廠商	歌林天龍音樂事業股份有限公司 台北市博愛市路63號10樓 電話：(02)2381-5876 傳真：(02)2381-5811
Thailand	Mahajak Development Co., Ltd. 46 Mahajak Building, Sukhumvit Soi 3 (Nana-Nua) Klongtoey, Bangkok Thailand. 10110 Tel: 66-2-256-0020 Fax: 66-2-253-1696
United Kingdom & Eire	Hayden Laboratories Ltd. Hayden House, Chiltern Hill, Chalfont St Peter, Gerrards Cross, Bucks, SL9 9UG Tel: 01753-888447 Fax: 01753-880109
U.S.A.	DENON ELECTRONICS, a Division of Denon Corporation (U.S.A.) 19 Chapin Road, Pine Brook, NJ 07058-9777 Tel: 973-396-7499, Fax: 888-544-8434

* If there is no service center in your local area, consult the outlet where the equipment was purchased.
* Falls sich in Ihrer Nähe keine Kundendienststelle befindet, wenden Sie sich an das Geschäft, wo das Gerät gekauft wurde.
* S'il n'y a aucun centre de service dans votre région, consultez votre revendeur.
* Se nella Vostra zona non c'è il centro di servizio, rivolgete Vi al negozio dove avete acquistato l'apparecchio
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* 若當地無服務中心，可向你購入本機的商號查詢。

H11001

DENON, Ltd.

13-16-11, YUSHIMA, BUNKYO-KU, TOKYO 113-0034, JAPAN
Telephone: (813) 3837 5321 Fax: (813) 3837 7804

Printed in Japan 515 0921 005 DI 110

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China	Shanghai Denon Products Service Co., Ltd. Room 1504, A Building 527 Huaihai Zhong Road, Shanghai 200020, P.R.C. Tel: 86-21-5306-2078 Fax: 86-21-5306-0620 中國遠望機電技術發展中心（北京天龍特約維修中心）北京東直門內大街92號 郵編：100007 電話：（10）64015151/64023798 傳真：（10）64034229 天龍音響上海特約技術維修服務中心 上海金沙江路253號 郵編：200062 電話： 86-21-6257-9958 傳真： 86-21-6260-5645
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Finland	Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 0644401
France	Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: 44-89-68-69
F.R. Germany	Denon Electronic GmbH An der Landwehr 19, 41334 Nettetal Tel: +49 2157 12 08 78 Fax: +49 2157 12 08 13
Greece	KINOTECHNIKI LTD. 14, PYRGOU STR. 166 75, GLYFADA ATHENS Tel: 01-96-01-071 Fax: 01-96-01-72
Hong Kong	DENON ASIA COMPANY LTD. 18/F No.79 Chatham Road South, Tsimshatsui Kowloon, Hong Kong Tel: 852-2516-6862, Fax: 852-2516-5940 天龍音響（亞洲）有限公司 香港九龍尖沙咀漆咸道南七十九號十八樓 電話：852-2516-6862 傳真：852-2516-5940
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Mexico	Labrador, S.A. de C.V. Zamora No. 154 Col. Condesa 06140 Mexico, D.F. Tel: 286 55 09 Fax: 286 34 62
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Switzerland	Diethelm & Co., AG. Grindelstrasse 5, 8303 Bassersdorf Tel: 01-306-1611 Fax: 01-306-1690
Taiwan R.O.C.	Taiwan Kolin Co., Ltd. 10th Fl., 86, Sec. 1, Chung-king S. Rd., Taipei, Taiwan R.O.C. Tel: 886-2-2314-1459 Fax: 886-2-2314-8521
進口廠商	KOLIN歌林股份有限公司 台北市重慶南路一段86號10樓 電話：886-2-2314-1459 傳真：886-2-2314-8521
Thailand	Mahajak Development Co., Ltd. 46 Mahajak Building, Sukhumvit Soi 3 (Nana-Nua) Klongtoey, Bangkok Thailand. 10110 Tel: 66-2-256-0020 Fax: 66-2-253-1696
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H91117

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011, JAPAN
Telephone: (03) 3584-8111

Printed in Japan 515 0867 004 EI 000

DENON® ELECTRONICS,
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Mailing address only: DENON ELECTRONICS,
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Parsippany, N.J. 07054-5370

DENON

DENON ELECTRONICS,
222 New Road
Parsippany, N.J. 07054
(973) 396-7499
(888) 544-8434 FAX

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13825 Cerritos Corporate Dr., Suite B,
Cerritos, CA 90703-2456
(562) 565-1730
(562) 565-1740 FAX

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Austin, TX. 78758
(512) 458-8292
(512) 453-4542 FAX

UNITED RADIO
2949 Erie Boulevard East
Syracuse, N.Y. 13224
(315) 446-8700
(315) 446-8505 FAX

AUDIO SERVICES
544 Central Dr., Suite 101
Virginia Beach, VA 23454
(757) 498-8277
(757) 498-9554 FAX

ELECTRO SERVICES
2144 Columbia Avenue
Lancaster, PA 17603
(717) 397-0509
(717) 397-9565 FAX

INNER SOUND
1818 S.E. Division St.
Port land, OR 97202
(503) 238-1955
(503) 238-1787 FAX

This warranty will be honored only in the U.S.A.

DENON®
LIMITED WARRANTY

Length of Warranty

This warranty on your DENON audio product which is distributed and warranted by DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) DEALER.

Product Category		
Compact System	*(G)*	*1 year*
AM FM Hi–Fi Radio	*(DT)*	*1 year*
Portable CD Player	*(DCP)*	*1 year*
Remote Controls	*(RC)*	*90 days*
Headphones	*(AH)*	*90 days*

What is Covered

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a. You are responsible for transporting your unit or arranging for its transportation.
b. If shipment of your unit is required;
   i. You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.
   ii. All products must be shipped in their original cartons or in replacement cartons supplied by us. If you no longer have the original cartons when service is required, please contact DENON ELECTRONICS for assistance.
c. **WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES SLIP MUST BE ATTACHED.**
d. You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem. In the case of a Compact Disc Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN THE U.S.A. ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This Warranty gives you specific legal rights, but you may also have other rights which vary from state to state.

DENON® ELECTRONICS,
a Division of DENON Corporation (U.S.A.)

Service Department
222 New Road
Parsippany, N.J. 07054

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ENGLISH

[Notice on DENON LINK – Second Edition Compatibility]

We greatly appreciate your purchase of this DENON product.
This product is compatible with DENON LINK – Second Edition.

■ DENON LINK Second Edition

- With the new version of DENON LINK, Second Edition (S.E.), the audio signals are transferred from the DVD player to the AV receiver in digital form, with the same quality as the signals recorded on the disc.
  Digital transfer of the high quality multi-channel signals of DVD audio is now possible for all discs. (A Second Edition compatible DVD player and AV receiver are required for this.)

■ Compatibility with previous models

- When the AVR-5803 is used in combination with a DVD player (DVD-9000) compatible with the previous version of DENON LINK, playback with the previous version of DENON LINK is possible. In this case, with some discs digital transfer of the audio playback signals with the same quality as the signals recorded on the disc may not be possible due to copyright protection restrictions.
- If your DVD player's DENON LINK connector is not S.E. compatible, you can have it updated. Please contact your authorized DENON dealer.
- "S.E." is indicated on the rear panel's DENON LINK connector on DENEN LINK S.E. compatible products.

[Notice of addition of parameters to OSD setup]

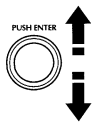
A function for switching between modes 1 and 2 has been added to the on-screen display settings.

■ In some rare cases, the OSD signals output from this unit will not be displayed on the screen due to the method of signal processing on the monitor TV.

Setting the On Screen Display (OSD)

- Use this to turn the on-screen display (messages other than the menu screens) on or off.
- Sets the on-screen display's display mode.
  Mode 1: Prevents flickering of the on-screen display when there is no video signal.
  Mode 2: Flickering is not prevented.
  Use this mode if the on-screen display does not appear in the mode 1, as may happen according to the TV being used.

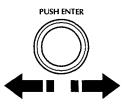
1



At the System Setup Menu select "On Screen Display" and press the ENTER button.

```
System Setup Menu
Audio Delay
Multi Zone Control
Auto Surround Mode
Ext. In Setup
Digital Multi Ch In
☞On Screen Display
Auto Tuner Presets
Setup Lock
```

2



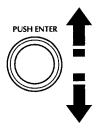
Select "ON" or "OFF".

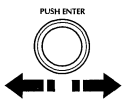
```
On Screen Display

☞   ON◂:▸OFF

  Mode1◂:▸Mode2
```

3





Select the On Screen Display mode and select "Mode1" or "Mode2".

```
On Screen Display

   ON◂:▸OFF

☞Mode1◂:▸Mode2
```

4

Enter the setting.
The System Setup Menu reappears.

ENGLISH

[Notice on Dolby Pro Logic IIx and HDCD compatibility]

We greatly appreciate your purchase of this DENON product.
The AVC-A1SR is compatible with Dolby Pro Logic IIx and HDCD playback.
As such, a number of functions have been added, as described below.
• Also refer to the AVC-A1SR's operating instructions.

Feature

■ Dolby Pro Logic IIx compatibility

• Dolby Pro Logic IIx furthers the matrix decoding technology of Dolby Pro Logic II to decode audio signals recorded on two channels into up to 7.1 playback channels, including the surround back channel. Dolby Pro Logic IIx also allows 5.1-channel sources to be played in up to 7.1 channels.
The mode can be selected according to the source. The Music mode is best suited for playing music, the Cinema mode for playing movies, and the Game mode for playing games. The Game mode can only be used with 2-channel audio sources.

■ Dolby Pro Logic II Game mode compatibility

• In addition to the previously offered Music and Cinema modes, the AVC-A1SR also offers a Game mode optimum for games.

■ HDCD® (High Definition Compatible Digital®) decoder

• HDCD is an encoding/decoding technology that greatly reduces the distortion that occurs upon digital recording while maintaining compatibility with the conventional CD format, thus expanding the dynamic range and achieving a high resolution.
Conventional CDs and HDCD compatible CDs are identified automatically to select the optimum digital processing.

• Manufactured under license from Dolby Laboratories. "Dolby","Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Work. ©1992 – 2000 Dolby Laboratories, Inc. All rights reserved.

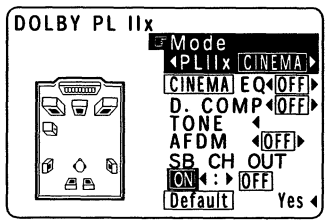
• HDCD®, HDCD®, High Definition Compatible Digital® and Microsoft® are either registered trademarks or trademarks of Microsoft Corporation, Inc. in the United States and/or other countries. HDCD system manufactured under license from Microsoft Corporation, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

Selecting the surround mode

Please see page 57 of the main unit's operating instructions.

(1) For 2-channel sources

Press the DOLBY SURROUND button to set the Dolby Surround mode.
The PLIIx mode is set when the "SB CH OUT" surround parameter is set to "ON", and the PLII mode is set when this parameter is set to "OFF".
Select the desired mode from among the "MODE" parameters under the surround parameters.
The decoder switches as described below.



• When the "SB CH OUT" parameter is set to "ON"

PLIIx CINEMA — PLIIx MUSIC — PLIIx GAME

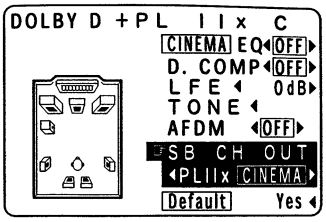
• When the "SB CH OUT" parameter is set to "OFF"

PLII CINEMA — PLII MUSIC — PLII GAME
PL

※ 1 To play in the PLIIx mode, set "Sp.Back" at the system setup to "1Spkr" or "2Spkr".

(2) For multi-channel sources

Press the DOLBY SURROUND button to set the Dolby Surround mode.
Select the desired mode from among the "SB CH OUT" parameters under the surround parameters. The mode can be selected even during playback in the DTS surround or MPEG2 AAC mode. The decoder switches as described below.



PLIIx CINEMA — PLIIx MUSIC — NON MTRX — OFF
*MTRX

*MTRX : when playing DTS signals, the mode is set to "ES MTRX" or "ES DSCRT".

※ To play in the PLIIx Music mode, set "Sp.Back" at the system setup to "1Spkr" or "2Spkr".

※ To play in the PLIIx Cinema mode, set "Sp.Back" at the system setup to "2Spkr".

HDCD playback

When an HDCD-compatible CD is played with digital connections, the surround modes shown below are displayed (abbreviated), indicating that HDCD decoding processing is being performed.

Display:" STEREO□□□□□HDCD "

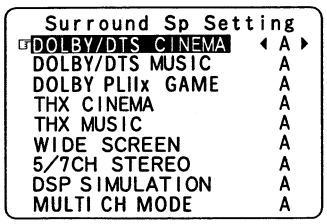
NOTES:

- Use digital connections to connect to an HDCD compatible player.

Surround speaker backup

Please see page 21 of the main unit's operating instructions.

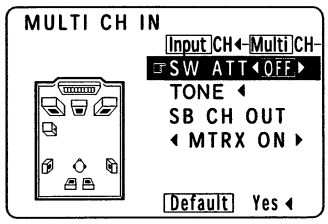
The surround speaker setting (A, B or A+B) can be set separately for each of the different types of surround modes (Cinema, Music, Game and Multi-Channel). The surround backup speaker's setting can also be set separately for each of these types of surround modes.



Surround parameters

Please see page 44 of the main unit's operating instructions.

The "SW ATT" parameter for reducing the level of the subwoofer channel when playing in the EXT.IN input mode has been added. Depending on the player you are using, the subwoofer channel's playback level may seem too high. If so, set "SW ATT" to "ON".
For Denon players, use with the original settings.



DTS NEO:6 MUSIC mode

Please see page 59 of the main unit's operating instructions.

The settable range for the "CNTR IMAGE" (center image) parameter is now 0.0 to 1.0, and the initial value is now 0.3.

About the DIRECT mode

Please see page 45 of the main unit's operating instructions.

A "Subwoofer" (ON/OFF) parameter for controlling the subwoofer has been added.

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